

Product datasheet for RC235953

NTAQ1 (NM 001283027) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: NTAQ1 (NM_001283027) Human Tagged ORF Clone

Tag: Myc-DDK
Symbol: NTAQ1

Synonyms: C8orf32; WDYHV1

Vector:pCMV6-Entry (PS100001)E. coli Selection:Kanamycin (25 ug/mL)

Cell Selection: Neomycin

ORF Nucleotide >RC235953 representing NM_001283027
Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ATGCATGCAAATGTACTTCTGAATGCGCACGATTACCATGTTGTTTTGCTTCATGTTTCAAGTGGAGGAC AGAACTTCATTTATGATCTCGATACTGTCTTGCCATTTCCCTGCCTCTTTGACACTTATGTAGAAGATGC CTTTAAGTCTGATGATGACATTCACCCACAGTTTAGGAGGAAATTTAGAGTGATCCGTGCAGATTCATAT TTGAAGAACTTTGCTTCTGACCGATCTCACATGAAAGACTCCAGTGGGAATTGGAGAGAGCCTCCGCCGC CATATCCCTGCATTGAGACTGGAGATTCCAAAATGAACCTGAACGATTTCATCAGTATGGATCCCAAGGT

AGGATGGGGCGCCGTCTACACACTATCCGAATTTACACATCGGTTTGGCAGTAAAAACTGC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT

ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC235953 representing NM_001283027

Red=Cloning site Green=Tags(s)

MHANVLLNAHDYHVVLLHVSSGGQNFIYDLDTVLPFPCLFDTYVEDAFKSDDDIHPQFRRKFRVIRADSY LKNFASDRSHMKDSSGNWREPPPPYPCIETGDSKMNLNDFISMDPKVGWGAVYTLSEFTHRFGSKNC

TRTRPLEQKLISEEDLAANDILDYKDDDDK**V**

Restriction Sites: Sgfl-Mlul



OriGene Technologies, Inc. 9620 Medical Center Drive, Ste 200

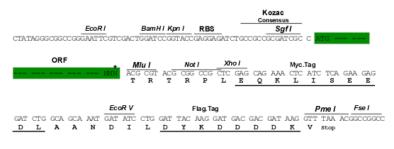
CN: techsupport@origene.cn

Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com



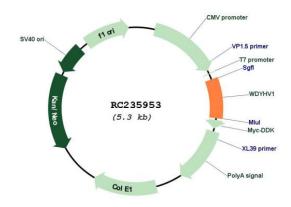
Cloning Scheme:





^{*} The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM_001283027

ORF Size: 411 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



NTAQ1 (NM_001283027) Human Tagged ORF Clone - RC235953

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: <u>NM 001283027.1</u>, <u>NP 001269956.1</u>

RefSeq Size: 1593 bp
RefSeq ORF: 414 bp
Locus ID: 55093
Cytogenetics: 8q24.13

Protein Families: Stem cell - Pluripotency

MW: 16.2 kDa

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]