

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

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGCATGCAAATGTACTTCTGAATGCGCAGCATTACCATGTTGTTTTGCTTCATGTTTCAAGTGGAGGAC
AGAACTTCATTTATGATCTCGATACTGTCTTGCCATTTCCCTGCCTCTTTGACACTTATGTAGAAGATGC
CTTTAAGTCTGATGATGACATTCACCCACAGTTTAGGAGGAAATTTAGAGTGATCCGTGCAGATTCATAT
TTGAAGAACTTTGCTTCTGACCGATCTCACATGAAAGACTCCAGTGGGAATTGGAGAGAGCTCCGCCGC
CATATCCCTGCATTGAGACTGGAGATTCAAAAATGAACCTGAACGATTTTCATCAGTATGGATCCCAAGGT
AGGATGGGGCGCGTCTACACACTATCCGAATTTACACATCGGTTTGGCAGTAAAAACTGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC235953 representing NM_001283027
Red=Cloning site Green=Tags(s)

MHANVLLNAHDYHVLLHVSSGQNFYDLDTVLPFPCLFDTYVEDAFKSDDDIHPQFRRKFRVIRADSY
LKNFASDRSHMKDSSGNWREPPPPYPCIE TGDSKMNLDNFISMDPKVGGWAVYTLSEFTHRFGSKNC

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI



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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:	<ol style="list-style-type: none">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]