

## Product datasheet for RC236025

### NTAQ1 (NM\_001283024) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	NTAQ1 (NM_001283024) 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:	>RC236025 representing NM_001283024 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGCGATCGCC

ATGATACCTATCTGGAACAACAGGCGAGACCTGGAGATGGACCTGTGATCTGGGATTACCATGTTGTTT  
TGCTTCATGTTTCAAGTGGAGGACAGAACTTCATTTATGATCTCGATACTGTCTTGCCATTTCCCTGCCT  
CTTTGACACTTATGTAGAAGATGCCTTTAAGTCTGATGATGACATTCACCCACAGTTTAGGAGGAAATTT  
AGAGTGATCCGTGCAGATTCATATTTGAAGAACTTTGCTTCTGACCGATCTCACATGAAAGACTCCAGTG  
GGAATTGGAGAGAGCCTCCGCCCATATCCCTGCATTGAGACTGGAGATTCCAAAATGAACCTGAACGA  
TTTCATCAGTATGGATCCCAAGGTAGGATGGGGCGCCGTACACACTATCCGAATTTACACATCGGTTT  
GGCAGTAAAACTGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:	>RC236025 representing NM_001283024 Red=Cloning site Green=Tags(s)
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MIPIWKQARPGDGPVIWDYHVLLHVSSGGQNFYDLDTVLPFPCLFDYVEDAFKSDDDIHPQFRRKF  
RVIRADSYLKNFASDRSHMKDSSGNWREPPPPYPCIIETGDSKMNLNDFISMDPKVWGAVYTLSEFTHRF  
GSKNC

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:	SgfI-MluI
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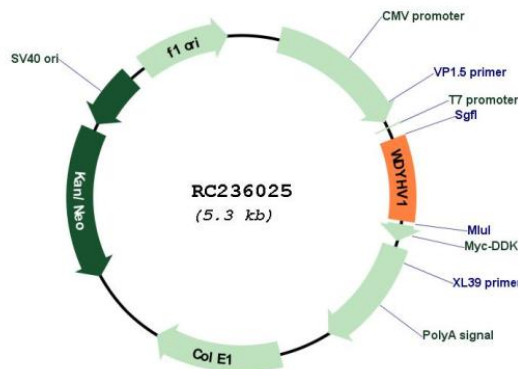


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Cloning Scheme:



Plasmid Map:



ACCN: NM\_001283024

ORF Size: 435 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.

<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>	<u>NM_001283024.1, NP_001269953.1</u>
<b>RefSeq Size:</b>	1492 bp
<b>RefSeq ORF:</b>	438 bp
<b>Locus ID:</b>	55093
<b>UniProt ID:</b>	<u>Q96HA8</u>
<b>Cytogenetics:</b>	8q24.13
<b>Protein Families:</b>	Stem cell - Pluripotency
<b>MW:</b>	17.2 kDa
<b>Gene Summary:</b>	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]