

Product datasheet for RC201055

NTAQ1 (NM_018024) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: NTAQ1 (NM_018024) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: NTAQ1
Synonyms: C8orf32; WDYHV1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC201055 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAAGGTAATGGCCCCGCTGCTGTCCACTACCAGCCGGCCAGCCCCCGGGACGCCTGCGTCTACA
GCAGCTGCTACTGTGAAGAAAATGTTTGGGAAGCTCTGTGAATACATCAAAAACCATGACCAGTATCCTTT
AGAAGAATGTTATGCTGTCTTCATATCTAATGAGAGGAAGATGATACCTATCTGGAAACAACAGGCGAGA
CCTGGAGATGGACCTGTGATCTGGGATTACCATGTTGTTTGGCTCATGTTTCAAGTGGAGGACAGAGCT
TCATTTATGATCTCGATACTGTCTTGCCATTTCCCTGCCTCTTTGACACTTATGTAGAAGATGCCATTAA
GTCTGATGATGACATTCACCCACAGTTTAGGAGGAAATTTAGAGTGATCTGTGCAGATTCATATTTGAAG
AACTTTGCTTCTGACCGATCTCACATGAAAGACTCCAGTGGGAATTGGAGAGAGCCTCCGCCGCCATATC
CCTGCATTGAGACTGGAGATTCAAAATGAACCTGAACGATTTTCATCAGTATGGATCCCAAGGTAGGATG
GGCGCCGTCTACACACTATCCGAATTTACACATCGGTTTGGCAGTAAAACTGC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC201055 protein sequence
 Red=Cloning site Green=Tags(s)

MEGNPAAVHYQPASPPRDACVYSSCYCEENVWKLCEYIKNHDQYPLEECYAVFISNERKMIPIWKQAR
PGDGPVIWDYHVLLHVSSGGQSFYDLDTVLPFCLFDTYVEDAIKSDDDIHPQFRKFRVICADSYLK
NFASDRSHMKDSSGNWREPPPPYPCIEGTGDSKMNLNDFISMDPKVWGAVYTLSEFTHRFGSKNC

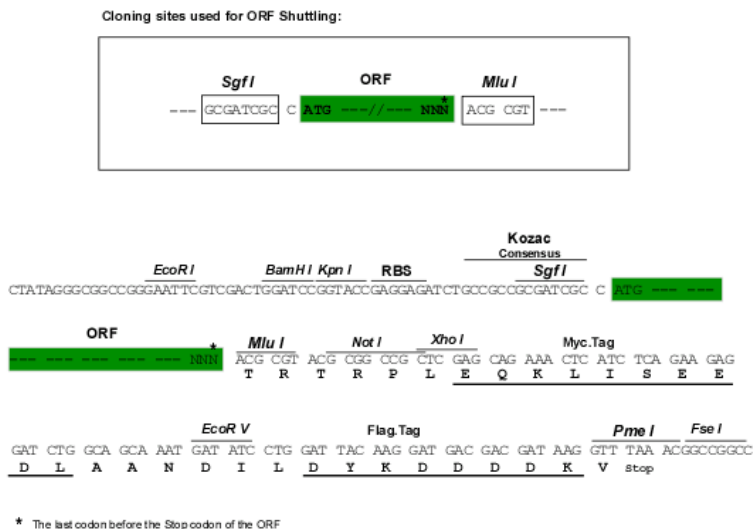
TRTRPLEQKLISEEDLAANDILDYKDDDDKV



Chromatograms: https://cdn.origene.com/chromatograms/mk6144_e03.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_018024

ORF Size: 615 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_018024.3](#)

RefSeq Size: 1568 bp

RefSeq ORF: 618 bp

Locus ID: 55093

UniProt ID: [Q96HA8](#)

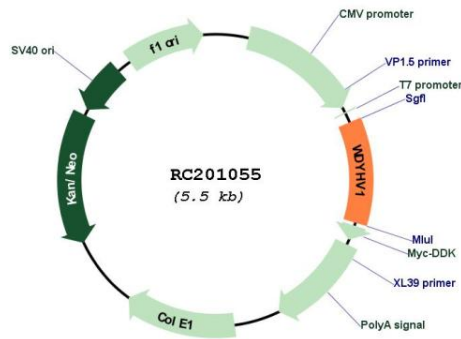
Cytogenetics: 8q24.13

Protein Families: Stem cell - Pluripotency

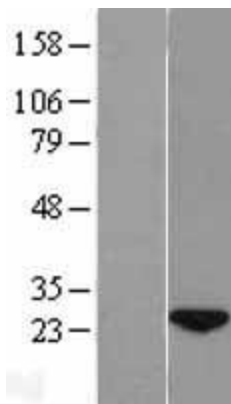
MW: 23.6 kDa

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]

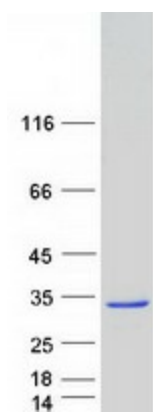
Product images:



Circular map for RC201055



Western blot validation of overexpression lysate (Cat# [LY402638]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC201055 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified WDYHV1 protein (Cat# [TP301055]). The protein was produced from HEK293T cells transfected with WDYHV1 cDNA clone (Cat# RC201055) using MegaTran 2.0 (Cat# [TT210002]).