

Product datasheet for **RG201055**

NTAQ1 (NM_018024) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: NTAQ1 (NM_018024) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: NTAQ1
Synonyms: C8orf32; WDYHV1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG201055 representing NM_018024
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGAAGGTAATGGCCCCGTGCTGTCCACTACCAGCCGGCCAGCCCCCGGGGACGCCTGCGTCTACA
 GCAGCTGCTACTGTGAAGAAAATGTTTGGAAAGCTCTGTGAATACATCAAAAACCATGACCAGTATCCTTT
 AGAAGAATGTTATGCTGTCTTCATATCTAATGAGAGGAAGATGATACCTATCTGGAAACAACAGGCGAGA
 CCTGGAGATGGACCTGTGATCTGGGATTACCATGTTGTTTGGCTTCATGTTTCAAGTGGAGGACAGAGCT
 TCATTTATGATCTCGATACTGTCTTGCCATTTCCCTGCCTCTTTGACACTTATGTAGAAGATGCCATTAA
 GTCTGATGATGACATTCACCCACAGTTTAGGAGGAAATTTAGAGTGATCTGTGCAGATTCATATTTGAAG
 AACTTTGCTTCTGACCGATCTCACATGAAAGACTCCAGTGGGAATTGGAGAGAGCCTCCGCCGCCATATC
 CCTGCATTGAGACTGGAGATTCAAAATGAACCTGAACGATTTTCATCAGTATGGATCCCAAGGTAGGATG
 GGGCGCGTCTACACACTATCCGAATTTACACATCGGTTTGGCAGTAAAACTGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG201055 representing NM_018024
 Red=Cloning site Green=Tags(s)

MEGNPAAVHYQPASPPRDACVYSSCYCEENVWKLCEYIKNHDQYPLEECYAVFISNERKMIPIWKQAR
 PGDGPVIWDYHVLLHVSSGGQSFYDLDTVLPFPCLFDTYVEDAIKSDDDIHPQFRRKFRVICADSYLK
 NFASDRSHMKDSSGNWREPPPPYPCIEETGDSKMNLNDFISMDPKVGVGAVYTLSEFTHRFGSKNC

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



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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_018024.1](#), [NP_060494.1](#)

RefSeq Size: 1348 bp

RefSeq ORF: 618 bp

Locus ID: 55093

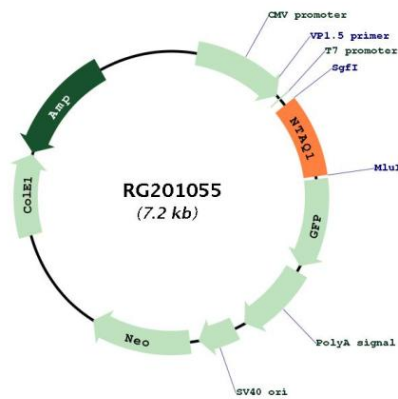
UniProt ID: [Q96HA8](#)

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]

Product images:



Circular map for RG201055