

Product datasheet for **RG235953**

NTAQ1 (NM_001283027) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: NTAQ1 (NM_001283027) 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: >RG235953 representing NM_001283027.
Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGCATGCAAATGTACTTCTGAATGCGCACGATTACCATGTTGTTTTGCTTCATGTTTCAAGTGGAGGA
CAGAACTTCATTTATGATCTCGATACTGTCTTGCCATTTCCCTGCCTCTTTGACACTTATGTAGAAGAT
GCCTTTAAGTCTGATGATGACATTCACCCACAGTTTAGGAGGAAATTTAGAGTGATCCGTGCAGATTCA
TATTTGAAGAACTTTGCTTCTGACCGATCTCACATGAAAGACTCCAGTGGGAATTGGAGAGAGCCTCCG
CCGCCATATCCCTGCATTGAGACTGGAGATTCCAAAATGAACCTGAACGATTTTCATCAGTATGGATCCC
AAGGTAGGATGGGGCGCGTCTACACACTATCCGAATTTACACATCGGTTTGGCAGTAAAACTGC
ACGCGTACGCGCGCGCTCGAG - GFP Tag - GTTTAAAC
```

Protein Sequence: >Peptide sequence encoded by RG235953
Blue=ORF Red=Cloning site Green=Tag(s)

```
MHANVLLNAHDYHVLLHVSSGGQNF IYDLDTVLPFPCLFDTYVEDAFKSDDDIHPQFRRKFRVIRADS
YLKNFASDRSHMKDSSGNWREPPPPYPC IETGDSKMNLNDFISMDPKVWGAVYTLSEFTHRFSGSKNC
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPSGYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPE
SVIFTDKIIRSNAIVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSMHFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
```

Restriction Sites: Sgfl-MluI



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Cloning Scheme:


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](#)

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).

RefSeq: [NM_001283027.1](#), [NP_001269956.1](#)

RefSeq Size: 1593 bp

RefSeq ORF: 414 bp

Locus ID: 55093

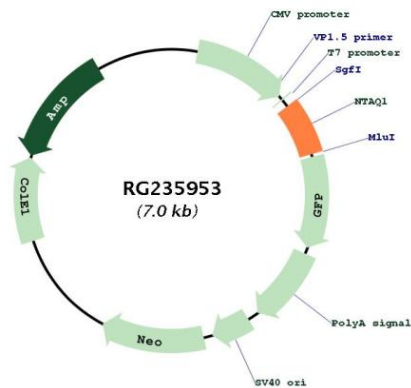
Cytogenetics: 8q24.13

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]

Product images:

Circular map for RG235953