

Product datasheet for **RG202327**

UBA5 (NM_024818) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: UBA5 (NM_024818) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: UBA5
Synonyms: DEE44; EIEE44; SCAR24; THIFP1; UBE1DC1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG202327 representing NM_024818
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCGGAGTCTGTGGAGCGCCTGCAGCAGCGGGTCCAGGAGCTGGAGCGGGAAC TTGCCAGGAGAGGA
 GTCTGCAGGTCCCGAGGAGCGGCGACGGAGGGGGCGCCGGTCCGCATCGAGAAGATGAGCTCAGAGGT
 GGTGGATT CGAATCCCTACAGCCGCTTGATGGCATTGAAACGAATGGGAATTGTAAGCGACTATGAGAAA
 ATCCGTACCTTTGCCGTAGCAATAGTAGGTGTTGGTGGAGTAGGTAGTGTGACTGCTGAAATGCTGACAA
 GATGTGGCATTGGTAAGTTGCTACTCTTTGATTATGACAAGGTGGAAGTACCCAATATGAATAGACTTTT
 CTCCAACCTCATCAAGCAGGATTAAGTAAAGTTCAAGCAGCAGAACATACTCTGAGGAACATTAATCCT
 GATGTTCTTTTTGAAGTACACAATAATATAACCACAGTGGAAAAC TTCAACATTTTCATGGATAGAA
 TAAGTAATGGTGGTTAGAAAGAGGAAAACCTGTTGATCTAGTCTTAGCTGTGTGGACAATTTTGAAGC
 TCGAATGACAATAAATACAGCTTGTAACTGGACAAACATGGATGGAACTCTGGGGTCAAGTAAAT
 GCAGTTTCAGGGCATATACAGCTTATAATCCTGGAGAATCTGCTTGTGTTTGCCTGTGCTCCACCACTTG
 TAGTTGCTGCAATATTGATGAAAAGACTCTGAAACGAGAAGGTGTTGTGCAGCCAGTCTTCTACCAC
 TATGGGTGTGGTTGCTGGGATCTTAGTACAAAACGTGTTAAAGTTTCTGTTAAATTTTGGTACTGTTAGT
 TTTTACCTGGATACAATGCAATGCAGGATTTTTTCTACTATGTCATGAAGCCAAATCCTCAGTGTG
 ATGACAGAAATTGCAGGAAGCAGCAGGAGGAATAAAGAAAAAGGTAGCAGCACTGCCTAAACAAGAGGT
 TATACAAGAAGAGGAAGAGATAATCCATGAAGATAATGAATGGGGTATTGAGCTGGTATCTGAGTTTCA
 GAAGAGGAACTGAAAAATTTTTCAGGTCCAGTTCAGACTTACCTGAAGGAATTACAGTGGCATAACAA
 TTCCAAAAAGCAAGAAGATTCTGTCACTGAGTTAACAGTGAAGATTCTGGTGAAGCTTGAAGACCT
 CATGGCCAAAATGAAGAATATG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG202327 representing NM_024818
Red=Cloning site Green=Tags(s)

MAESVERLQQRVQELERELAQERSLQVPRSGDGGGRRVRIEKMSSEVVDSNPYSRLMALKRMGIVSDYEK
 IRTFAVAIVGVGGVGSVTAEMLTRCGIGKLLLFDYDKVELANMNLFFQPHQAGLSKVQAAEHTLRNINP
 DVLFEVHNYNITTVENFQHFMDRISNGGLEEGKPVDLVLSVDNF EARMINTACNELGQTMESGVSEN
 AVSGHIQLIIPGESACFACAPPLVVAANIDEKTLKREGVCAASLPTTMGVVAGILVQNVLFLLNFGTVS
 FYLGYNAMQDFFTPMSMKPNPQCDDRNCRKQEEYKKKVAALPKQEQVEEEEEIIHEDNEWGIELVSEVS
 EEELKNFSGPVPDLPEGITVAYTIPKKQEDSVTELTVEDSGESLEDLMAKMKNM

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_024818

ORF Size: 1212 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_024818.6](#)

RefSeq Size: 2720 bp

RefSeq ORF: 1215 bp

Locus ID: 79876

UniProt ID: [Q9GZZ9](#)

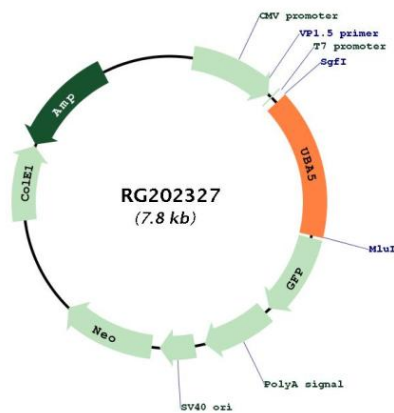
Cytogenetics: 3q22.1

Domains: ThiF

Protein Families: Transmembrane

Gene Summary: This gene encodes a member of the E1-like ubiquitin-activating enzyme family. This protein activates ubiquitin-fold modifier 1, a ubiquitin-like post-translational modifier protein, via the formation of a high-energy thioester bond. Alternative splicing results in multiple transcript variants. A pseudogene of this gene has been identified on chromosome 1. [provided by RefSeq, Feb 2016]

Product images:



Circular map for RG202327