

Product datasheet for RC202327

UBA5 (NM_024818) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	UBA5 (NM_024818) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	UBA5
Synonyms:	DEE44; EIEE44; SCAR24; THIFP1; UBE1DC1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC202327 representing NM_024818 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGGAGTCTGTGGAGCGCCTGCAGCAGCGGGTCCAGGAGCTGGAGCGGGAAC TTGCCAGGAGAGGA
GTCTGCAGGTCCCGAGGAGCGGCGACGGAGGGGGCGGCCGGTCCGCATCGAGAAGATGAGCTCAGAGGT
GGTGGATT CGAATCCCTACAGCCGCTTGATGGCATTGAAACGAATGGGAATTGTAAGCGACTATGAGAAA
ATCCGTACCTTTGCCGTAGCAATAGTAGGTGTTGGTGGAGTAGGTAGTGTGACTGCTGAAATGCTGACAA
GATGTGGCATTGGTAAGTTGCTACTCTTTGATTATGACAAGGTGGAAGTACCCAATATGAATAGACTTTT
CTTCCAACCTCATCAAGCAGGATTAAGTAAAGTTCAAGCAGCAGAACATACTCTGAGGAACATTAATCCT
GATGTTCTTTTTGAAGTACACAATAATATAACCACAGTGGAAAAC TTCAACATTTTCATGGATAGAA
TAAGTAATGGTGGTTAGAAAGAGGAAAACCTGTTGATCTAGTCTTAGCTGTGTGGACAATTTTGAAGC
TCGAATGACAATAAATACAGCTTGTAACTGGACAAACATGGATGGAACTGGGGTTCAGTGAAGT
GCAGTTTCAGGGCATATACAGCTTATAATTCCTGGAGAATCTGCTTGTGTTTGCCTGTGCTCCACCACTTG
TAGTTGCTGCAATATTGATGAAAAGACTCTGAAACGAGAAGGTGTTGTGCAGCCAGTCTTCTACCAC
TATGGGTGTGGTGTGGGATCTTAGTACAAAACGTGTTAAAGTTTCTGTTAAATTTTGGTACTGTTAGT
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ATGACAGAAATTGCAGGAAGCAGCAGGAGGAATAAAGAAAAAGGTAGCAGCACTGCCTAAACAAGAGGT
TATACAAGAAGAGGAAGAGATAATCCATGAAGATAATGAATGGGTATTGAGCTGGTATCTGAGTTTCA
GAAGAGGAACTGAAAAATTTTTCAGGTCCAGTTCAGACTTACCTGAAGGAATTACAGTGGCATAACAA
TTCCAAAAAGCAAGAAGATTCTGTCACTGAGTTAACAGTGAAGATTCTGGTGAAGCTTGAAGACCT
CATGGCCAAAATGAAGAATATG

ACGCGTACGCGGCCGCTCGAGCAGAAAAC TATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC202327 representing NM_024818
Red=Cloning site Green=Tags(s)

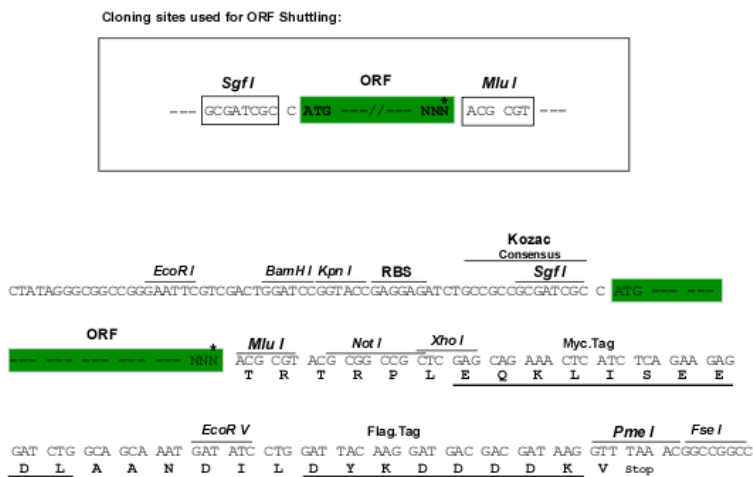
MAESVERLQQRVQELERELAQERSLQVPRSGDGGGRRVRIEKMSSEVVDSNPYSRLMALKRMGIVSDYEK
IRTFAVAIVGVGGVGSVTAEMLTRCGIGKLLLFDYDKVELANMNLFFQPHQAGLSKVQAAEHLRNINP
DVLFEVHNYNITTVENFQHFMDRISNGGLEEGKPVLDLVCVDNF EARM TINTACNELGQTWME SGVSEN
AVSGHIQLIIPGESACFACAPPLVVAANIDEKTLKREGVCAASLPTTMGVVAGILVQNVLFLLNFGTVS
FYLGYNAMQDFFPTMSMKPNPQCDDRNCRKQEEYKKKVAALPKQEV IQEEEEIIHEDNEWGIELVSEVS
EELK NFGS GVPV PDLPEGITVAYTIPKKQEDSVTELTVEDSGESLEDLMAKMKNM

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mg2876_a03.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

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

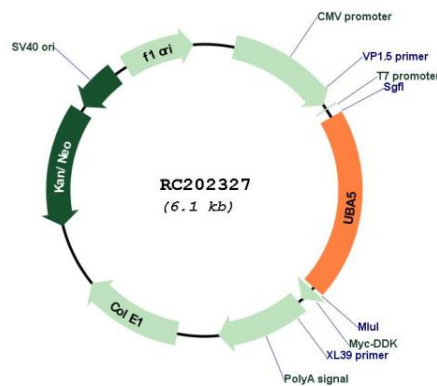
Domains: ThiF

Protein Families: Transmembrane

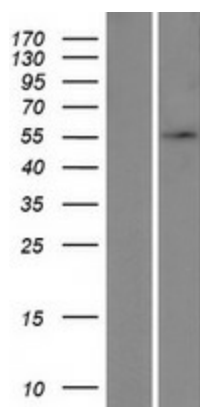
MW: 44.7 kDa

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]

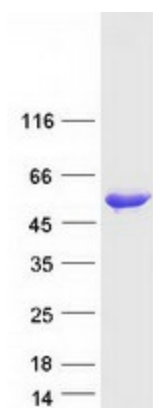
Product images:



Circular map for RC202327



Western blot validation of overexpression lysate (Cat# [LY411039]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC202327 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified UBA5 protein (Cat# [TP302327]). The protein was produced from HEK293T cells transfected with UBA5 cDNA clone (Cat# RC202327) using MegaTran 2.0 (Cat# [TT210002]).