

## Product datasheet for RC212938

### UBA5 (NM\_198329) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	UBA5 (NM_198329) 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:	>RC212938 representing NM_198329 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCATTGAAACGAATGGGAATTGTAAGCGACTATGAGAAAATCCGTACCTTTGCCGTAGCAATAGTAG  
GTGTTGGTGGAGTAGGTAGTGTGACTGCTGAAATGCTGACAAGATGTGGCATTGGTAAGTTGCTACTCTT  
TGATTATGACAAGGTGGAAGTACCAATATGAATAGACTTTTCTCCAACCTCATCAAGCAGGATTAAGT  
AAAGTTCAAGCAGCAGAACAATACTCTGAGGAACATTAATCCTGATGTTCTTTTGAAGTACACAATA  
ATATAACCACAGTGAAAACTTTCAACATTTTCATGGATAGAATAAGTAATGGTGGTTAGAAGAAGGAAA  
ACCTGTTGATCTAGTTCTTAGCTGTGGACAATTTTGAAGCTCGAATGACAATAAATACAGCTTGTAA  
GAAGTTGACAAACATGGATGGAATCTGGGGTCAGTGAAAATGCAGTTTCAGGGCATATACAGCTTATA  
TTCTGGAGAATCTGCTTGTGTTTGCCTGCTCCACCCTTGTAGTTGCTGCAAAATATTGATGAAAAGAC  
TCTGAAACGAGAAGGTGTTTGTGCAGCCAGTCTTCTACCCTATGGGTGTGGTTGCTGGGATCTTAGTA  
CAAAACGTGTTAAAGTTTCTGTTAAATTTTGGTACTGTTAGTTTTACCTTGGATACAATGCAATGCAGG  
ATTTTTTCTACTATGTCCATGAAGCCAAATCCTCAGTGTGATGACAGAAAATTCAGGAAGCAGCAGGA  
GGAATATAAGAAAAGGTAGCAGCACTGCCTAAACAAGAGTTATACAAGAAGAGGAAGAGATAATCCAT  
GAAGATAATGAATGGGGTATTGAGCTGGTATCTGAGGTTTCAGAAGAGGAAGTAAAAATTTTTCCAGGTC  
CAGTTCCAGACTTACCTGAAGGAATTACAGTGGCATAACAATTCCAAAAAGCAAGAAGATTCTGTAC  
TGAGTTAACAGTGAAGATTCTGGTGAAGCTTGAAGACCTCATGGCCAAAATGAAGAATATG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC212938 representing NM\_198329  
Red=Cloning site Green=Tags(s)

MALKRMGIVSDYEKIRTFVAIVGVGGVGSVTAEMLTRCGIGKLLLFDYDKVELANMNRFFQPHQAGLS  
 KVQAAEHLRNINPDVLEFVHNYNITTVENFQHFMDRISNGGLEEGKPVLDLSCVDNFARMINTACN  
 ELGQTMESGVSENAVSGHIQLIIPGESACFACAPPLVVAANIDEKTLKREGVCAASLPTTMGVVAGILV  
 QNVLKFLNFGTVSFYLYGNAMQDFPTMSMKPNPQCDDRNCRKQEEYKKKVAALPKQVEIQEEEEIIH  
 EDNEWGIELVSEVSEELKNFSGPVPDLPEGITVAYTIPKKQEDSVTELTVEDSGESLEDLMAKMKNM

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/ja1528\\_e07.zip](https://cdn.origene.com/chromatograms/ja1528_e07.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_198329

**ORF Size:** 1044 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\\_198329.3](#)

**RefSeq Size:** 3070 bp

**RefSeq ORF:** 1047 bp

**Locus ID:** 79876

**UniProt ID:** [Q9GZZ9](#)

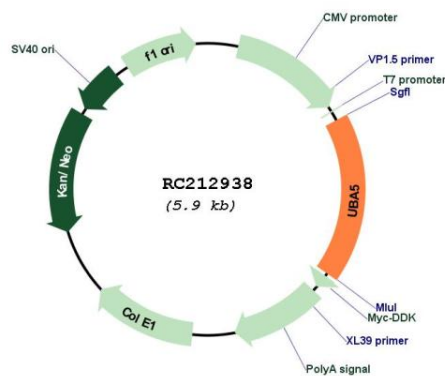
**Cytogenetics:** 3q22.1

**Protein Families:** Transmembrane

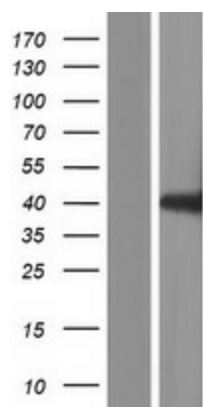
**MW:** 38.4 kDa

**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 RC212938



Western blot validation of overexpression lysate (Cat# [LY405021]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC212938 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).