

## Product datasheet for SC127177

### UBA5 (NM\_198329) Human Untagged Clone

#### Product data:

|                           |   |
|---------------------------|---|
| Product Type:             | Expression Plasmids   |
| Product Name:             | UBA5 (NM_198329) Human Untagged Clone   |
| Tag:                      | Tag Free  |
| Symbol:                   | UBA5  |
| Synonyms:                 | DEE44; EIEE44; SCAR24; THIFP1; UBE1DC1  |
| Mammalian Cell Selection: | None  |
| Vector:                   | <u>pCMV6-XL5</u>  |
| E. coli Selection:        | Ampicillin (100 ug/mL)  |
| Fully Sequenced ORF:      | >OriGene ORF within SC127177 sequence for NM_198329 edited (data generated by NextGen Sequencing) |

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ATGGCATTGAAACGAATGGGAATTGTAAGCGACTATGAGAAAATCCGTACCTTTGCCGTA
GCAATAGTAGGTGTTGGTGGAGTAGGTAGTGTGACTGCTGAAATGCTGACAAGATGTGGC
ATTGGTAAGTTGCTACTCTTTGATTATGACAAGGTGGAAGTCAAGCAGCAGAACAATACTCTGAGG
TTCTTCCAACCTCATCAAGCAGGATTAAGTAAAGTTCAAGCAGCAGAACAATACTCTGAGG
AACATTAATCCTGATGTTCTTTTGAAGTACACAATAAATAAACCACAGTGGAAAAC
TTTCAACATTTTCATGGATAGAATAAGTAATGGTGGGTTAGAAGAAGGAAAACCTGTTGAT
CTAGTTCTTAGCTGTGTGGACAATTTTGAAGCTCGAATGACAATAAATACAGCTTGTAAAT
GAACTTGGACAAACATGGATGGAATCTGGGGTCAGTAAAATGCAGTTTCAGGGCATATA
CAGCTTATAATTCCTGGAGAATCTGCTTGTGTTTTCGTGTGCTCCACCACTGTAGTTGCT
GCAAAATTTGATGAAAAGACTCTGAAACGAGAAGGTGTTTGTGCAGCCAGTCTTCTTACC
ACTATGGGTGTGGTTGCTGGGATCTTAGTACAAAACGTGTTAAAGTTTCTGTTAAATTTT
GGTACTGTTAGTTTTACCTTGGATACAATGCAATGCAGGATTTTTTCTACTATGTCC
ATGAAGCCAAATCCTCAGTGTGATGACAGAAAATTCAGGAAGCAGCAGGAGGAATAAAG
AAAAAGGTAGCAGCACTGCCTAAACAAGAGGTTATACAAGAAGAGGAAGAGATAATCCAT
GAAGATAATGAATGGGTATTGAGCTGGTATCTGAGGTTTCAGAAGAGGAACTGAAAAAT
TTTTCAGGTCCAGTTCAGACTTACCTGAAGGAATTACAGTGGCATAACAATTTCCAAAA
AAGCAAGAAGATTCTGTCACTGAGTTAACAGTGAAGATTCTGGTAAAAGCTTGAAGAC
CTCATGGCCAAAATGAAGAATATGTAG

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Clone variation with respect to NM\_198329.2



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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_198329 unedited  
 AATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGCGGAGACGTGTCTGTCTGT  
 GAGGCGCTGGGTGCACGTCCCCAGGCTCTGGGCTAGGAAGGCAGCGGCGAGGTGCCTCCC  
 CACGTACCCTCGCGGGCCAGCCGAGCAACGTGGGGCGAAGGCGGCGGCGAAGGCCCGG  
 GCTGGGAGCGTTGGCGGCCGAGTCCCAGCCATGGCGGAGTCTGTGGAGCGCCTGCAGCA  
 CGGGTCCAGGAGCTGGAGCGGGAACCTGCCAGGAGAGGAGTCTGCAGGTCCCAGGAG  
 CGCGACGAGGGGGCGGCCGGTCCGCATCGAGAAGATGAGCTCAGAGGTGGTGGATTC  
 GAATCCCTACAGCCGCTTGATGGCATTGAAACGAATGGGAATTGTAAGCGACTATGAGAA  
 AATCCGTACCTTTGCCGTAGCAATAGTAGGTGTTGGTGGAGTAGGTAGTGTGACTGCTGA  
 AATGCTGACAAGATGTGGCATTGGTAAGTTGCTACTCTTTGATTATGACAAGGTGGAAC  
 AGCCAATATGAATAGACTTTTCTTCCAACCTCATCAAGCAGGATTAAGTAAAGTTCAAGC  
 AGCAGAACATACTCTGAGGAACATTAATCCTGATGTTCTTTNTGAAGTACACAATAA  
 TATAACCACAGTGGGAACTTTCAACATTTTATGGATAGAAATAGTAATGGGTGGGTTAG  
 AAGAAAGGAAACCTGTTGATCTAGTTCTTAGCTGTGTGGACCATTTGAAGCTCGATGACA  
 ATAATACAGCTTGATGAACTGGACAACATGATGGATCTGGGTAGTAAATGCAGTTCA  
 GGCATATAAGCTAATATTCTGAGATCTGCTGNTTGTCTGCTCACACTGGTAGTGCTGA  
 AATGATAAAGCTCTACC

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_198329 unedited  
 GACCGCGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTGTCTATTATGAAAATA  
 GCTGCTTTTTATTTGCCTTTGTCTCACTTTGAATATTATGATCCACAGGTTACAGACTTT  
 TCCAATAACTACATTTCAACTTGTACTTCATCAGCAAACATTTGAGAGGATGTTATTTCA  
 TAGGTTAACTATTTTGAATTCATTGTTGATCAAGTTAGTAGTAGTGGGCAATTTTCTTAT  
 AGAAAGCAATTCAAACATAATGAGCAGATGCTTGCCAGCTCAATCAATAAGCTGTATG  
 CCTTGTCTTCTCCCTGTATCTGAGGATCATATACTACTTTATTGTCCATGTCCTCATGC  
 AACAGACACAAGGATTACTGGAAGAAAAAGATTACAGGATCAGATTTGTCCTTCCCCC  
 ACTCCAAAAGGCCAAAACATTTCAACAGCTATGTTTTCAAGTAAGATTTATATCTACAA  
 TATCCTTTGAGTTTTTCTACTAGAATGAAACACATTTTAGGAGAGTTAATGATTTTCGTT  
 GGAGCGGGGAGAAACAGGCAAGTACAGGATTTTCAAAAAGTATAACAATTCAGGTAAGA  
 ATATACATTAATTAATGTTGCCCTAAGTTTTATCAGTTAAAATTTTTTTAATTTCAAG  
 GGAAGAGGCTTTAACATGAGAAAATAAATATATCCAGTCCATTATCTACATATTTCTCA  
 TTTTGGCCATGAGGCTTCCAAGCTTTCCAGATCTTCCACTGGTAACACTCAGTGACAGA  
 ATCTTCTTGCTTTTTTGAATTGTGTATGCCACTGTAATTCCTTCCAGGTAGTCTGGAAC  
 TGGACCCTGAAAATTTTCAAGTTCCTTCTGAAACTCAGATACCAGCTCATACCCCATNC  
 ATATCTCAGGGATATCCCTCCCCTTCTGGATAACCCT

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_198329

**Insert Size:**

2080 bp

**OTI Disclaimer:**

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**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\\_198329.1](#), [NP\\_938143.1](#)

**RefSeq Size:** 3070 bp

**RefSeq ORF:** 1047 bp

**Locus ID:** 79876

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

**Cytogenetics:** 3q22.1

**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]

Transcript Variant: This variant (2) uses an alternate 5' terminal exon, resulting in a distinct 5' UTR and the use of a downstream start codon, compared to variant 1. The encoded isoform (2) has a shorter N-terminus compared to isoform 1. Variants 2 and 3 encode the same isoform.