

## Product datasheet for MR211556

### Uba1 (NM\_001136085) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Uba1 (NM_001136085) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Uba1
Synonyms:	A1; A1S9; Sb; Sbx; Ube-1; Ube1x
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR211556 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTCCAGCTCGCCGCTGTCCAAGAAACGTGCGGTGTCCGGCCCTGATCCAAAGCCGGTTCTAACTGCT  
CCCCTGCACAGTCTGCGCTGTCCGAAGTGTCTCAGTGCCAACCAACGGAATGGCGAAGAACGGCAGTGA  
AGCAGACATAGACGAGAGCCTTTACTCCGGCAGCTGTACGTTTTGGGCCATGAGGCAATGAAAATGCTC  
CAGACATCCAGCGTCCTTGTCTCAGGCTTGGGGGCTTGGGTGTAGAAAATGCTAAGAACATCATCCTTG  
GTGGGGTCAAGGCTGTCACCCTACATGACCAAGGAACACCCAGTGGGCTGATCTCTCTCCAGTTTTA  
CCTTCGGGAGGAGGACATTGGTAAAAATCGAGCGGAGGTATCCCAGCCCCGACTTGCTGAACTCAACAGC  
TATGTACCTGTCACTGCCTACACTGGGCCCTTGTGCGAGGACTTCCTTAGTAGCTCCAGGTGGTGGTCC  
TCACCAACAGCCCCCTGGAAGCCAGCTGCGAGTGGGGGAGTTCTGTATAGCCGTGGTATCAAGTAGT  
GGTGGCAGATACAAGAGGCTGTTTGGGCAACTTTCTGTGATTTGGAGAGGAAATGGTCTCACAGAT  
TCCAATGGGGAGCAGCCACTCAGTGCTATGGTTCAATGGTCACCAAGGACAACCCCGGTGTGGTTACCT  
GCCTTGATGAGGCCGACATGGCTTTGAGACTGGTGACTTCGTCTCATTCTCAGAAGTACAGGGCATGAT  
CCAACCTCAATGGATGTCAGCCCATGGAGATCAAAGTGTGGTTCCTTATACCTTTAGTATCTGTGACACT  
TCCAACCTCTGACTACATCCGTGGAGGCATCGTCAGTCAGTCAAAGTACCGAAAAAGATTAGTTTTTA  
AATCCTTGCCAGCATCACTGGTAGAGCCTGACTTTGTGATGACTGACTTTGCCAAGTATTCTCGCCCTGC  
CCAACCTGCACATTGGCTTCCAAGCTCTGCACCAATTCTGTGCTCTGCACAACCAACCCACCTCGACCACGA  
AATGAGGAAGATGCAACAGAGCTGGTGGCCCTGGCTCAGGCTGTAACGCTCGGTCCCCACCTTCAGTAA  
AACAGAACAGCTTGGATGAAGACCTTATTCGGAAGCTAGCTTATGTTGCTGCTGGGGACCTGGCACCCAT  
AAATGCTTTTATTGGGGCCTTGTGCCCAGGAAGTATGAAGGCCTGCTCTGGAAAAGTTTATGCCCATC  
ATGCAGTGGTGTACTTTGATGCTTTGAATGTCTCCAGAGGACAAAGAGGCTCTGACAGAGGAGAAGT  
GCCTCCCACGTCAGAACCCTTACGATGGCAGGTAGCTGTATTTGGGTGCACTTTGAGGAGAAGCTGAG  
CAAGCAAAAGTACTTCTGGTGGTGCAGGGGCCATTGGCTGTGAATTGCTCAAGAAGTTGCCATGATT



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GGGCTGGGTTGTGGAGAGGGTGGAGAGGTCGTGGTCACAGACATGGACACCATTGAGAAATCAAATCTGA  
 ACCGACAGTTTCTCTCCGGCCCTGGGATGTCACGAAGTTAAAGTCTGACACGGCCGCTGCAGCTGTGCG  
 CCAGATGAATCCTTACATCCAGGTGACAAGCCACCAGAACCGTGTAGGTCCTGACACTGAGCGCATCTAT  
 GATGATGATTTCTTCAAATTTGGATGGTGTGGCCAATGCTCTGGACAACATAGATGCCCGCATGTACA  
 TGGATCGCCGATGTGTACTATCGGAAGCCACTGCTAGAGTCTGGCACACTGGGCACAAAGGGCAACGT  
 GCAGGTGGTAATCCCCTTCTGACAGAATCCTACAGCTCTAGCCAGGATCCACCAGAGAAATCCATCCCC  
 ATTTGTACCTGAAAAACTTTCCAATGCCATCGAACACACTCTTCAGTGGGCCCGGGATGAATTTGAAG  
 GCCTTTTCAAGCAGCCAGCAGAAAATGTTAATCAGTACCTCACAGACTCCAAATTTGGAGCGGACATT  
 GCGGCTGGCTGGTACCCAGCCATTGGAGGTGCTGGAGGCTGTGCAGCGCAGCCTGGTGTGCAGCGACCA  
 CAGACTTGGGAGACTGTGTGACCTGGGCTGCCACACTGGCACACCCAGTACTGTAACAACATCCGGC  
 AACTGCTGCACAACCTTCTCTGACCAGCTCACCAGCTCAGGGGCCCTTTCTGGTCTGGACCCAAACG  
 CTGTCCACACCCACTTACTTTTGTGTTAAACAATACATTGCATCTGGATTATGTGATGGCTGCTGCCAAC  
 CTTTTTGGCCAGACCTATGGGTTGACTGGATCCCAAGACCAGCTGCTGTGGCCTCACTCTGCAGTCAG  
 TACAAGTCCCAGAGTTCACCCCAAGTCTGGTGTCAAGATTCATGTTTCTGACCAGGAGTTCGACAGTGC  
 CAATGCCTCTGTTGATGACAGCCGTCTTGAGGAGCTCAAAGCCACATTGCCAGCCAGACAAGTTACCC  
 GGATTTAAGATGTACCCATTGATTTTGAAGGATGATGACAGCAATTTCCACATGGATTTTCATTGTGG  
 CTGCATCCAATCTTCGGGCCGAAAATATGATATTTCCCTGCAGACCGACACAAGAGCAAGCTGATTGC  
 AGGGAAGATCATCCCAGCCATTGCCACAACCACAGCTGCTGTGGTTGGCCTTGTGTGTCTGGAGCTTAC  
 AAGGTAGTTCAAGGGCACCAACAGCTCGATTCCTACAAAATGGTTTCTGAACTTGGCCCTGCCCTTCT  
 TTGGGTTTTCTGAACCTTGTGTCACCTCGTACCAGTACTATAATCAAGAGTGGACATTGTGGGATCG  
 CTTTGAAGTACAAGGGCTGCAGCCTAATGGTGGAGAGTAGCCCTCAAGCAGTTCCTTGATTACTTTAAG  
 ACAGAGCAGAAAATGGAGATCACCATGCTGTCCAGGGCGTCCATGCTCTATTCTTCTCATGCCAG  
 CTGCTAAGCTCAAGGAACGATTGGATCAGCCGATGACAGAGATTGTGAGCCGAGTGTCAAAGAGAAAAGCT  
 GGGCCGCCATGTGCGGGCACTGGTCTGAGCTGTGCTGCAACGATGAAAGCGGCCGAGGACGTCGAGGTC  
 CCTTATGTCCGATATACCATTTCG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR211556 protein sequence  
 Red=Cloning site Green=Tags(s)

MSSSPLSKRRVSGPDPKPGSNCSAQSALSEVSSVPTNGMAKNGSEADIDESLYSRQLYVLGHEAMKML  
 QTSSVVLVSLRGLGVEIAKNIILGGVKAVTLHDQGTQWADLSSQFYLREEDIGKNRAEVSQPRLAELNS  
 YVPVTAYTGPLVEDFLSSFQVVVLTNSPLEAQLRVGEFCHSRGIKLVVADTRGLFGQLFCDGGEEMVLT  
 SNGEQPLSAMVSMVTKDNPVVTCLDEARHGFETGDFVSFSEVQGMQLNGCQPMKIKVLGPYTFSDT  
 SNFSDYIRGGIVSQVKVPKKISFKSLPASLVEPDFVMTDFAKYSRPAQLHIGFQALHQFCALHNQPPRPR  
 NEEATELVGLAQAVNARSPPSVKQNSLDEDLIRKLAYVAAGDLAPINAFIGGLAAQEVKACSGKFMPI  
 MQWLYFDALCLPEDKEALTEEKCLPRQNYDQVAVFGSDFQEKLSKQYFLVGAGAIGCELLKNFAMI  
 GLGCGEGGEVVVTDMDTIEKSNLNRQFLFRPVDVTKLKSDTAAAAVRQMNPYIQVTSHQNRVGPDIERY  
 DDDFFQNLDGVANALDNIDARMYMDRRCVYRKP LLESGLTGKGNVQVVIPFLTESYSSSQDPPEKSIP  
 ICTLKNFPNAIEHTLQWARDEFGLFKQPAENVNQYLTDKSFVERTLRLAGTQPLEVLEAVQRSLVLRP  
 QTWGDCVTWACHHWHQYCNIRQLLHNFPPDQLTSSGAPFWSGPKRCPHPLTFDVTNNTLHLDYVMAAN  
 LFAQTYGLTGSQDRAAVASLLQSVQVPEFTPKSGVKIHVSDQELQSANASVDDSRLEELKATLPSDKLP  
 GFKMYPIDFEKDDSNFHMDFIVAASNLRAENYDISPADRHKSKLIAGKIIPAIATTTAAVVGLVCLELY  
 KVVQGHQQLDSYKNGFLNLALPFFGFSEPLAAPRHQYNNQEWTLWDRFEVQGLQPNGEEMTLKQFLDYFK  
 TEHKLEITMLSQGVSMLYSFFMPAAKLKERLDQPMTEIVSRVSKRKLGRHVRLVLELCCNDESGEDVEV  
 PYYRYTIR

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_001136085

**ORF Size:** 3177 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\\_001136085.2](#), [NP\\_001129557.1](#)

**RefSeq Size:** 4073 bp

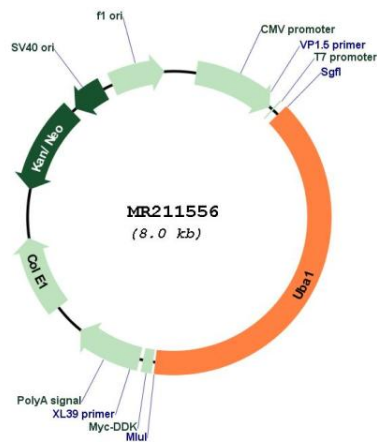
**RefSeq ORF:** 3177 bp

**Locus ID:** 22201

**UniProt ID:** [Q02053](#)

<b>Cytogenetics:</b>	X 16.15 cM
<b>MW:</b>	117.8 kDa
<b>Gene Summary:</b>	This gene encodes a member of the ubiquitin-activating E1 family. The encoded protein initiates the ubiquitin activation and transfer cascade, catalyzing the first step in ubiquitin conjugation to mark cellular proteins for proteasome degradation. Ubiquitin activating enzymes use ATP to form a thioester between a conserved catalytic cysteine of the enzyme and the C-terminal carboxylate of ubiquitin. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jan 2013]

**Product images:**



Circular map for MR211556