

Product datasheet for MR231534

Uba1 (NM_001276317) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Uba1 (NM_001276317) 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:	>MR231534 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCCAGCTCGCCGCTGTCCAAGAAACGTGCGTGTCCGGCCCTGATCCAAAGCCGGTTCTAACTGCT
CCCCTGCACAGTCTGCGCTGTCCGAAGTGTCTCAGTGCCAACCAACGGAATGGCGAAGAACGGCAGTGA
AGCAGACATAGACGAGAGCCTTTACTCCGGCAGCTGTACGTTTTGGCCATGAGGCAATGAAAATGCTC
CAGACATCCAGCGTCCTTGTCTCAGGCTTGGGGGCTTGGGTGTAGAAAATGCTAAGAACATCATCCTTG
GTGGGTCAAGGCTGTCACCCTACATGACCAAGGAACACCCAGTGGGCTGATCTCTCTCCAGTTTTA
CCTTCGGGAGGAGGACATTGGTAAAAATCGAGCGGAGGTATCCCAGCCCCGACTTGCTGAACTCAACAGC
TATGTACCTGTCACTGCCTACACTGGGCCCTTGTGCGAGGACTTCCTTAGTAGCTCCAGGTGGTGGTCC
TCACCAACAGCCCCCTGGAAGCCAGCTGCGAGTGGGGGAGTTCTGTATAGCCGTGGTATCAAGTAGT
GGTGGCAGATACAAGAGGCTGTTTGGGCAACTTTCTGTGATTTGGAGAGGAAATGGTCTCACAGAT
TCCAATGGGGAGCAGCCACTCAGTGCTATGGTTCAATGGTCACCAAGGACAACCCCGGTGTGGTTACCT
GCCTTGATGAGGCCGACATGGCTTTGAGACTGGTGACTTCGTCTCATTCTCAGAAGTACAGGGCATGAT
CCAACCTCAATGGATGTCAGCCCATGGAGATCAAAGTGTGGTTCCTTATACCTTTAGTATCTGTGACACT
TCCAACCTCTGACTACATCCGTGGAGGCATCGTCAGTCAGTCAAAGTACCGAAAAAGATTAGTTTTA
AATCCTTGCCAGCATCACTGGTAGAGCCTGACTTTGTGATGACTGACTTTGCCAAGTATTCTCGCCCTGC
CCAACCTGCACATTGGCTTCCAAGCTCTGCACCAATTCTGTGCTCTGCACAACCAACCACCTCGACCACGA
AATGAGGAAGATGCAACAGAGCTGGTGGCCCTGGCTCAGGCTGTAACGCTCGGTCCCCACCTTCAGTAA
AACAGAACAGCTTGGATGAAGACCTTATTCGGAAGCTAGCTTATGTTGCTGCTGGGGACCTGGCACCCAT
AAATGCTTTTATTGGGGCCTTGTGCCCAGGAAGTCATGAAGGCCTGCTCTGGAAAAGTTTATGCCCATC
ATGCAGTGGTGTACTTTGATGCTTTGAATGTCTCCAGAGGACAAAGAGGCTCTGACAGAGGAGAAGT
GCCTCCCAGTCAAGACCTTACGATGGCAGGTAGCTGATTTGGGTGACTTTTCCAGGAGAAGCTGAG
CAAGCAAAAGTACTTCTGGTGGTGCAGGGCCATTGGCTGTGAATTGCTCAAGAAGTTTCCATGATT



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GGGCTGGGTTGTGGAGAGGGTGGAGAGGTCGTGGTCACAGACATGGACACCATTGAGAAATCAAATCTGA
 ACCGACAGTTTCTCTCCGGCCCTGGGATGTCACGAAGTTAAAGTCTGACACGGCCGCTGCAGCTGTGCG
 CCAGATGAATCCTTACATCCAGGTGACAAGCCACCAGAACCGTGTAGGTCCTGACACTGAGCGCATCTAT
 GATGATGATTTCTTCAAATTTGGATGGTGTGGCCAATGCTCTGGACAACATAGATGCCCGCATGTACA
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 GCAGGTGGTAATCCCCTTCTGACAGAATCCTACAGCTCTAGCCAGGATCCACCAGAGAAATCCATCCCC
 ATTTGTACCTGAAAAACTTTCCAATGCCATCGAACACACTCTTCAGTGGGCCCGGGATGAATTTGAAG
 GCCTTTTCAAGCAGCCAGCAGAAAATGTTAATCAGTACCTCACAGACTCCAAATTTGGAGCGGACATT
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 CAGACTTGGGAGACTGTGTGACCTGGGCTGCCACACTGGCACACCCAGTACTGTAACAACATCCGGC
 AACTGTGCACAACCTTCTCTGACCAGCTCACCAGCTCAGGGGCCCTTTCTGGTCTGGACCCAAACG
 CTGTCCACACCCACTTACTTTTGTGTTAAACAATACATTGCATCTGGATTATGTGATGGCTGCTGCCAAC
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 TACAAGTCCCAGAGTTCACCCCAAGTCTGGTGTCAAGATTCATGTTTCTGACCAGGAGTTCGACAGTGC
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 AGGGAAGATCATCCCAGCCATTGCCACAACCACAGCTGCTGTGGTTGGCCTTGTGTGTCTGGAGCTTAC
 AAGGTAGTTCAAGGGCACCAACAGCTCGATTCCTACAAAATGGTTTCTGAACTTGGCCCTGCCCTTCT
 TTGGGTTTTCTGAACCTCTTGTGCACCTCGTACCAGTACTATAATCAAGAGTGGACATTGTGGGATCG
 CTTTGAAGTACAAGGGCTGCAGCCTAATGGTGGAGAGTAGCCCTCAAGCAGTTCCTTGATTACTTTAAG
 ACAGAGCAGAAAATGGAGATCACCATGCTGTCCAGGGCGTCCATGCTCTATTCTTCTCATGCCAG
 CTGCTAAGCTCAAGGAACGATTGGATCAGCCGATGACAGAGATTGTGAGCCGAGTGTCAAAGAGAAAAGCT
 GGGCCGCCATGTGCGGGCACTGGTGCTGAGCTGTGCTGCAACGATGAAAGCGGCCGAGGACGTCGAGGTC
 CCTTATGTCCGATATACCATTTCG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR231534 protein sequence
 Red=Cloning site Green=Tags(s)

MSSSPLSKRRVSGPDPKPGSNCSAQSALSEVSSVPTNGMAKNGSEADIDESLYSRQLYVLGHEAMKML
 QTSSVVLVSLRGLGVEIAKNIILGGVKAVTLHDQGTQWADLSSQFYLREEDIGKNRAEVSQPRLAELNS
 YVPVTAYTGPLVEDFLSSFQVVVLTNSPLEAQLRVGEFCHSRGIKLVVADTRGLFGQLFCDGGEEMVLT
 SNGEQPLSAMVSMVTKDNPVVTCLDEARHGFETGDFVSFSEVQGMQLNGCQPMKIKVLGPYTFSDT
 SNFSDYIRGGIVSQVKVPKKISFKSLPASLVEPDFVMTDFAKYSRPAQLHIGFQALHQFCALHNQPPRPR
 NEEATELVGLAQAVNARSPPSVKQNSLDEDLIRKLAYVAAGDLAPINAFIGGLAAQEVKACSGKFMPI
 MQWLYFDALCLPEDKEALTEEKCLPRQNYDQVAVFGSDFQEKLSKQYFLVGAGAIGCELLKNFAMI
 GLGCGEGGEVVVTDMDTIEKSNLNRQFLFRPVDVTKLKSDTAAA AVRQMNPIQVTS HQNRVGPDIERY
 DDDFFQNL DGVANALDNIDARMYMDRRCVYYRKPLLESGTLGKGNVQVVIPFLTESYSSSQDPPEKSIP
 ICTLKNFPNAIEHTLQWARDEFGLFKQPAENVNQYL TDSKFVERTLRLAGTQPLEVLEAVQRSLVLQRP
 QTWGDCVTWACHHWHQYCNIRQLLHNFPPDQL TSSGAPFWSGPKRCPHPLTFDVNNTLHLDYVMAAAN
 LFAQTYGLTGSQDRAAVASLLQSVQVPEFTPKSGVKIHVSDQELQSANASVDDSRLEELKATLPSDKLP
 GFKMYPIDFEKDDSNFHMDFIVAASNLAENYDISPADRHKSKLIAGKIIPAIATTTAAVVGLVCLELY
 KVVQGHQQLDSYKNGFLNLALPFFGFSEPLAAPRHQYNNQEWTLWDRFEVQGLQPNGEEMTLKQFLDYFK
 TEHKLEITMLSQGVSMLYSFFMPAAKLKERLDQPMTEIVSRVSKRKLGRHVRLVLELCCNDESGEDVEV
 PYYRYTIR

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001276317

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_001276317.1](#), [NP_001263246.1](#)

RefSeq Size: 4068 bp

RefSeq ORF: 3177 bp

Locus ID: 22201

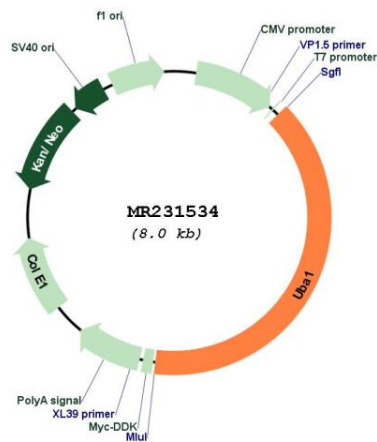
UniProt ID: [Q02053](#)

Cytogenetics: X 16.15 cM

MW: 117.8 kDa

Gene Summary: 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 MR231534