

## Product datasheet for MR219278

### Uba1 (NM\_009457) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Uba1 (NM_009457) 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:	>MR219278 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTCCAGCTCGCCGCTGTCCAAGAAACGTGCGGTGTCCGGCCCTGATCCAAAGCCGGTTCTAACTGCT  
CCCCTGCACAGTCTGCGCTGTCCGAAGTGTCTCAGTGCCAACCAACGGAATGGCGAAGAACGGCAGTGA  
AGCAGACATAGACGAGAGCCTTTACTCCCGCAGCTGTACGTTTTGGGCCATGAGGCAATGAAAATGCTC  
CAGACATCCAGCGTCCTTGTCTCAGGCTTGGGGGCTTGGGTGTAGAAAATGCTAAGAACATCATCCTTG  
GTGGGGTCAAGGCTGTCACCCTACATGACCAAGGAACACCCAGTGGGCTGATCTCTCTCCAGTTTTA  
CCTTCGGGAGGAGGACATTGGTAAAAATCGAGCGGAGGTATCCCAGCCCCGACTTGCTGAACTCAACAGC  
TATGTACCTGTCACTGCCTACACTGGGCCCTTGTGCGAGGACTTCCTTAGTAGCTCCAGGTGGTGGTCC  
TCACCAACAGCCCCCTGGAAGCCAGCTGCGAGTGGGGGAGTTCTGTATAGCCGTGGTATCAAGTAGT  
GGTGGCAGATACAAGAGGCTGTTTGGGCAACTTTTCTGTGATTTGGAGAGGAAATGGTCTCACAGAT  
TCCAATGGGGAGCAGCCACTCAGTGCTATGGTTCAATGGTCACCAAGGACAACCCCGGTGTGGTTACCT  
GCCTTGATGAGGCCGACATGGCTTTGAGACTGGTGACTTCGTCTCATTCTCAGAAGTACAGGGCATGAT  
CCAACCTCAATGGATGTCAGCCCATGGAGATCAAAGTGTGGTCCCTTATACCTTTAGTATCTGTGACACT  
TCCAACCTCTGACTACATCCGTGGAGGCATCGTCAGTCAGTCAAAGTACCGAAAAAGATTAGTTTTA  
AATCCTTGCCAGCATCACTGGTAGAGCCTGACTTTGTGATGACTGACTTTGCCAAGTATTCTCGCCCTGC  
CCAACCTGCACATTGGCTTCCAAGCTCTGCACCAATTCTGTGCTCTGCACAACCAACCCACCTCGACCACGA  
AATGAGGAAGATGCAACAGAGCTGGTGGCCCTGGCTCAGGCTGTAACGCTCGGTCCCCACCTTCAGTAA  
AACAGAACAGCTTGGATGAAGACCTTATTCGGAAGCTAGCTTATGTTGCTGCTGGGGACCTGGCACCCAT  
AAATGCTTTTATTGGGGCCTTGTGCCCAGGAAGTCATGAAGGCCTGCTCTGGAAAAGTTTATGCCCATC  
ATGCAGTGGTGTACTTTGATGCTTTGAATGTCTCCAGAGGACAAAGAGGCTCTGACAGAGGAGAAGT  
GCCTCCCAGTCAAGACCGTTACGATGGCAGGTAGCTGTATTTGGGTGACTTTTCCAGGAGAAGCTGAG  
CAAGCAAAAGTACTTCTGGTGGTGCAGGGGCCATTGGCTGTGAATTGCTCAAGAAGTTTCCATGATT



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GGGCTGGGTTGTGGAGAGGGTGGAGAGGTCGTGGTCACAGACATGGACACCATTGAGAAATCAAATCTGA  
 ACCGACAGTTTCTCTCCGGCCCTGGGATGTCACGAAGTTAAAGTCTGACACGGCCGCTGCAGCTGTGCG  
 CCAGATGAATCCTTACATCCAGGTGACAAGCCACCAGAACCGTGTAGGTCCTGACACTGAGCGCATCTAT  
 GATGATGATTTCTTCAAATTTGGATGGTGTGGCCAATGCTCTGGACAACATAGATGCCCGCATGTACA  
 TGGATCGCCGATGTGTACTATCGGAAGCCACTGCTAGAGTCTGGCACACTGGGCACAAAGGGCAACGT  
 GCAGGTGGTAATCCCCTTCTGACAGAATCCTACAGCTCTAGCCAGGATCCACCAGAGAAATCCATCCCC  
 ATTTGTACCTGAAAAACTTTCCAATGCCATCGAACACACTCTTCAGTGGGCCCGGGATGAATTTGAAG  
 GCCTTTTCAAGCAGCCAGCAGAAAATGTTAATCAGTACCTCACAGACTCCAAATTTGTGGAGCGGACATT  
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 CAGACTTGGGAGACTGTGTGACCTGGGCTGCCACACTGGCACACCCAGTACTGTAACAACATCCGGC  
 AACTGCTGCACAACCTTCTCTGACCAGCTCACCAGCTCAGGGGCCCTTTCTGGTCTGGACCCAAACG  
 CTGTCCACACCCACTTACTTTTGTGTTAAACAATACATTGCATCTGGATTATGTGATGGCTGCTGCCAAC  
 CTTTTTGGCCAGACCTATGGGTTGACTGGATCCCAAGACCAGCTGCTGTGGCCTCACTCTGCAGTCAG  
 TACAAGTCCCAGAGTTCACCCCAAGTCTGGTGTCAAGATTCATGTTTCTGACCAGGAGTTCGACAGTGC  
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 GGATTTAAGATGTACCCATTGATTTTGAAGGATGATGACAGCAATTTCCACATGGATTTTCATTGTGG  
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 AGGGAAGATCATCCCAGCCATTGCCACAACCACAGCTGCTGTGGTTGGCCTTGTGTGTCTGGAGCTTAC  
 AAGGTAGTTCAAGGGCACCAACAGCTCGATTCTCAAAAATGGTTTCTGAACTTGGCCCTGCCCTTCT  
 TTGGGTTTTCTGAACCTTGTGTCACCTCGTACCAGTACTATAATCAAGAGTGGACATTGTGGGATCG  
 CTTTGAAGTACAAGGGCTGCAGCCTAATGGTGAGGAGTAGCCCTCAAGCAGTTCCTTGATTACTTTAAG  
 ACAGAGCAGAAAATGGAGATCACCATGCTGTCCAGGGCGTCCATGCTCTATTCTTCTCATGCCAG  
 CTGCTAAGCTCAAGGAACGATTGGATCAGCCGATGACAGAGATTGTGAGCCGAGTGTCAAAGAGAAAAGCT  
 GGGCCGCCATGTGCGGGCACTGGTCTGAGCTGTGCTGCAACGATGAAAGCGGCCGAGGACGTCGAGGTC  
 CCTTATGTCCGATATACCATTGCG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR219278 protein sequence  
 Red=Cloning site Green=Tags(s)

MSSSPLSKRRVSGPDPKPGSNCSAQSALSEVSSVPTNGMAKNGSEADIDESLYSRQLYVLGHEAMKML  
 QTSSVLSGLRGLGVEIAKNIILGGVKAVTLHDQGTQWADLSSQFYLREEDIGKNRAEVSQPRLAELNS  
 YVPVTAYTGPLVEDFLSSFQVVVLTNSPLEAQLRVGEFCHSRGIKLVVADTRGLFGQLFCDGGEEMVLT  
 SNGEQPLSAMVSMVTKDNPVVTCLDEARHGFETGDFVSFSEVQGMQLNGCQPMEIKVLGPYTFSDT  
 SNFSDYIRGGIVSQVKVPKKISFKSLPASLVEPDFVMTDFAKYSRPAQLHIGFQALHQFCALHNQPPRPR  
 NEEATELVGLAQAVNARSPPSVKQNSLDEDLIRKLAYVAAGDLAPINAFIGGLAAQEVKACSGKFMPI  
 MQWLYFDALCLPEDKEALTEEKCLPRQNYDQVAVFGSDFQEKLSKQYFLVGAGAIGCELLKNFAMI  
 GLGCGEGGEVVVTDMDTIEKSNLNRQFLFRPVDVTKLKSDTAAAAVRQMNPYIQVTSHQNRVGPDIERY  
 DDDFFQNLDGVANALDNIDARMYMDRRCVYYRKPLLESGTLGKGNVQVVIPFLTESYSSSQDPPEKSIP  
 ICTLKNFPNAIEHTLQWARDEFGLFKQPAENVNQYLTDKSFVERTLRLAGTQPLEVLEAVQRSLVLRP  
 QTWGDCVTWACHHWHQYCNIRQLLHNFPPDQLTSSGAPFWSGPKRCPHPLTFDVNNTLHLDYVMAAAN  
 LFAQTYGLTGSQDRAAVASLLQSVQVPEFTPKSGVKIHVSDQELQSANASVDDSRLEELKATLPSDKLP  
 GFKMYPIDFEKDDSNFHMDFIVAASNLAENYDISPADRHKSKLIAGKIIPAIATTTAAVVGLVCLELY  
 KVVQGHQQLDSYKNGFLNLALPFFGFSEPLAAPRHQYNNQEWTLWDRFEVQGLQPNGEEMTLKQFLDYFK  
 TEHKLEITMLSQGVSMLYSFFMPAAKLKERLDQPMTEIVSRVSKRKLGRHVRLVLELCCNDESGEDVEV  
 PYYRYTIR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

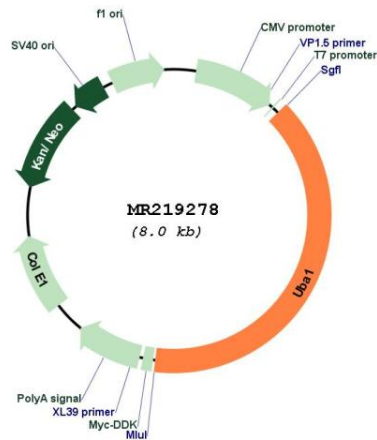


**Cytogenetics:** X 16.15 cM

**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 MR219278