

Product datasheet for MR211543

Uba6 (NM_172712) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Uba6 (NM_172712) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Uba6
Synonyms:	4930542H01; 5730469D23Rik; AU021846; AW124799; E1-L2; Ube112
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR211543 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGCGGTCCGAGCCGTTGGCTGTGCTTTCCTGTGAAGAGGCGTCCTGCTCCTCTGGGGAGCCTGCG
GTGCAAGTAAAAATTTACCTACCATGACAACAGAATCTTTGGAAATCGATGATGGATTACAGTCGCCA
GAGATATGTTCTTGGTGACACAGCAATGCAGAAGATGGCCAAGTCCTGTGCTTCTTAAGTGGTATGGGT
GGTCTTGGAGTGAAATGCAAAGAATCTTGTCTTGCAGGGATTAAGGCCCTAACAAATTCATGATACAA
AAAAATGCCAAGCATGGGATCTAGGACCAATTTCTTCTGTGTGAAGATGATGTTGTTAATGAGAGAAA
CAGGGCTGAAGCTGTACTTCATCGTATTGCAGAACTAAATCCATATGTTCAAGTCTCATCATCCTCTGCC
CCTCTTGATGAAACCACAGACCTCTCTTCTTAGAAAAATATCAGTGTGTAGTATTGACTGAAATAAAAC
TGACATTACAAAAGAAGATCAACAATTTTTGCCATTCTCATTGCCCTCCAATTAAGTTTCATTAGTGCAGA
TGTACATGGAAATTTGGTCCAGGTTGTTTTGTGATTTTGGTGATGAATTTGAAGTTTCAGATACAACAGGA
GAAGAACCAAAAGAAATTTTCATTTCAAACATAACGCAAGCTAATCCAGGTATTGCACTTGCCCTTGAAA
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TGGATCTGTACAACAGATAACTGTCATATCACCATTTTCTTTCAGCATTGGTGATACTACAAAACCTGGAC
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GCCAGATAAAACATCCAAGGTGCCTTATTGCAGATTTTAGCAAACCTGAGGCACCTTTAGAGATTCATCT
CGCTATGCTTGCCTTGGACCAGTTTCAGGAGAATATAACCGTAAGCCAAATATCAGATGTCAGCAGGAT
TCAGATGAACTATTGAAGCTAACAGTATCTATAAATGAAACCTTGAAGAGAAGCCTGAAGTGAATGCTG
ACATTGTGCACTGGCTTTCGTGGACTGCCCAAGGCTTTTTACCACCACTCGTGTGCAGTTGGAGGTGT
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GGAATGGTAACAGTTACAGATCCTGACTTGATAGAAAAATCCAATTTAAACAGACAGTTCCTGTTTCGTC
 CTCATCACATACAGAAACCTAAAAGCTATACTGCTGCTGAAGCAACTCTGAAAATAAATCCTCAATTA
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 ACTAATGAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR211543 protein sequence
 Red=Cloning site Green=Tags(s)

MERSEPLAVLSCEEASCSWAGCASKNLPMTTESLEIDDGLYSRQRYVLGDTAMQKMAKSCVFLSGMG
 GLGVEIAKNLVLGAKALTIHDTKKQAWDLGTFNFFLCEDDVNERNRAEAVLHRIAELNPYVQVSSSSA
 PLDETTDLDFLEKYQCVLTEIKLTLQKINNCHSHCPPIKFISADVHGIWSRLFCDFGDEFVSDTTG
 EEPKEIFISNITQANPGIVTCLSHPHKLETGQFLTFREIHGMTGLNGSVQQITVISPFSFSIGDTTKLD
 PYLHGGIAVQVTPKTFCFEPLSQIKHPRCLIADFSKEAPLEIHLAMLALDQFQENYRKNPNI RCQQD
 SDELLKLTVSINETLEEKPEVNADIVHWL SWTAQGFLLPPLAAVGGVASQEVLKAVTGKFSPLCQWLYLE
 AADTVESLGNPGHEEFLPRGDRYDAIRACIGNTL CQKLQNLNIFLVGCGAIGCEMLKNFALLGVGTGREK
 GMYVTVPDLIEKSNLNRQFLFRPHHIQPKSYTAAEATL KINPQLKIDAHLNKVCPATESIYSDEFYTK
 QDIIITALDNVEARRYVDSRCLANLRPLLD SGTMGTKGHTEIIVPQLTESYNHRDPPEEIPFCTLKSF
 PAAIEHTIQWARDKFESSFSHKPSL FNKFWQAYPSAEDVLQKI QNGQSLEGC FQVIKLLSRRPRIWSQCV
 ELARLKFKEYFNHKAQLLHCFPLETRLKDGSLFWQSPKRPPSP IKFDLNEPLHL SFLQSAAKLYATVYC
 IPFSEKDL SVNSLMDILSEVKIEEFKPSNKVVQTD ETARKPDHVPVSSDERNAVFLQEEALSSNKATKS
 DLQMTVLSFEKDDDRNGHIDFITAASNLRAKMYSIEPADRFKTKRIAGKIIPAIATSTA AVSGLVALEMI
 KVAGGYPFDAYKNCFLNLAIP IIVFTETSEVRKTEIRNGISFTIWRWTVHGKEDFTLSDFINAVKENYG
 IEPMTVVQGVKMLYVPMVPGHAKRLKLTMHKLVKVPSTEKKYVDLTVSFPADADGDEDLPGPPVRYF SHD
 TNE

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

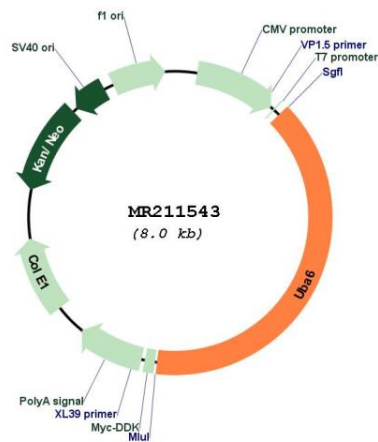
SgfI-MluI

Cytogenetics: 5 E1

MW: 118 kDa

Gene Summary: Activates ubiquitin by first adenylating its C-terminal glycine residue with ATP, and thereafter linking this residue to the side chain of a cysteine residue in E1, yielding a ubiquitin-E1 thioester and free AMP. Specific for ubiquitin, does not activate ubiquitin-like peptides. Differs from UBE1 in its specificity for substrate E2 charging. Does not charge cell cycle E2s, such as CDC34 (By similarity). Essential for embryonic development. Required for UBD/FAT10 conjugation.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR211543