

Product datasheet for **RR212674**

Uba5 (NM_001009669) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Uba5 (NM_001009669) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Uba5
Synonyms: Ube1dc1
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR212674 representing NM_001009669
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTAAACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGCCGAGTCGGTGGAGCGGCTGCTGCAGCGGGTTGAGGAGCTGGAGCAGGAACCGCCGGGAGAGAA
 GCCGGCGGATTGCGGGGACGGCCACTGCGGCCGACCCGCATCCAGAAGATGAGCGACGAGGTGGTGGAA
 TTCCAATCCCTACAGCCGCTGATGGCATTGAAACGGATGGGAGTTGTCAGTGACTATGAGAAAATCCGT
 ACCTATGCTGTAGCAATAGTAGGTGTTGGTGGAGTTGGTAGTGTGACTGCTGAAATGCTGACAAGATGTTG
 GCATTGGTAAGTTGCTACTCTTTGACTATGACAAGGTGGAGCTGGCCAACATGAATCGACTTTTCTTCCA
 GCCGTATCAAGCAGGGATGAGTAAGGTCCAAGCAGCAGAGCACACCCTGAGGAGCATTAAACCCTGATGTT
 CTGTTTGAAGTTCACAATAATATACCACCGTGGAACACTTCGAACATTTTCATGAATAGAATAAGTA
 ATGGGGGATTAGAAGAAGGACAACCTGTTGACCTAGTTCCTAGCTGTGTGGACAACCTTTGAAGCTCGAAT
 GGCAATAAATACAGCTTGTAAATGAACCTGGTCCAGACATGGATGGAATCTGGGGTCAGTGAACCGCAGTT
 TCCGGGCACATCCAGCTTATGGTCCCTGGAGAGTCGGCTTGCTTTGCGTGCCACCACCCTGTAGTTG
 CTTCAAACATTGATGAAAAACCCCTGAAACGAGAAGCGCTGCGCGGCCAGCCCTCCACCACCATGGG
 AGTGGTTGCAGGGATCTTGGTACAAAATGTATTAAGTTTCTGTTAAAAATTTGGGACTGTCAAGTTTTTAC
 CTCGGATACAATGCCATGCAGGACTTCTCCCTACCATGTTTCATGAAGCCAAACCCTCAGTGTGATGACA
 AAAACTGTAGGAAGCAACAAGAAGAATACAAGAAGAGGGCACCAGCGCAGCCACGCAGGAGACTGCGCC
 CCAAGAGGAGGAAGAGGTAGTTCATGAGGACAACGAGTGGGGTATTGAGCTGGTGTCTGAGGTTTCAGAA
 GAGGAAGTGAAGAACTCGTCAGGTCCTGTTCCACCTTACCTGAAGGAATTACAGTGGCATAACAGTCC
 CAAAGAAGAGAGAGGATTCTGTTTCTGAAGTAACGGTGAAGATTCTGGTGAAGCTTGAAGATCTCAT
 GGCCAGGATGAAGAAGATG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR212674 representing NM_001009669
Red=Cloning site Green=Tags(s)

MAESVERLLQRVEELEQELARERSRRIAGDGHGCRTRIQQMSDEVVDSNPYSRLMALKRMGVVSDYEKIR
 TYAVAI VGVGGVSVTAEMLTRCGIGKLLLFDYDKVELANMNLFFQPYQAGMSKVQAAEHLRSINPDV
 LFEVHNYNITTVHEHFEHFMNRISNGGLEEGQPVLDLVCVDNFEARMAINTACNELGQTWME SGVSENAV
 SGHIQLMVPGESACFACAPPLVVASNIDEKTLKREGVCAASLPTTMGVVAGILVQNVLKFLKFGTVSFY
 LGYNAMQDFPPTMFMKPNPQCDDKNCRKQEEYKKRAPAQPTQETAPQE EEEV VHEDNEWGIELVSEVSE
 EELKNSSGPVPTLPEGITVAYTVPKKREDSVSEVTVEDSGESLEDLMARMKKM

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

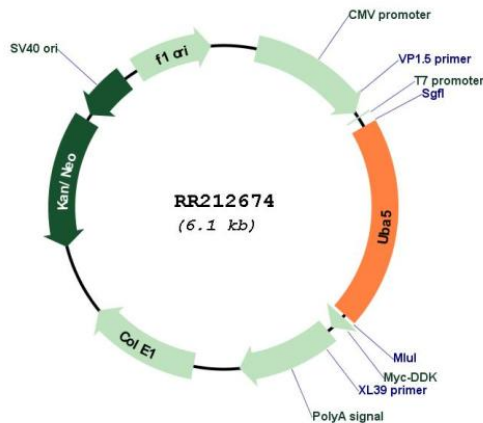
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001009669

ORF Size:	1209 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:	<ol style="list-style-type: none">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_001009669.1 , NP_001009669.1
RefSeq Size:	1463 bp
RefSeq ORF:	1212 bp
Locus ID:	300968
UniProt ID:	Q5M7A4
Cytogenetics:	8q32
MW:	44.9 kDa
Gene Summary:	E1-like enzyme which activates UFM1 and SUMO2.[UniProtKB/Swiss-Prot Function]