

Product datasheet for MR206322

Uba5 (NM_025692) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Uba5 (NM_025692) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Uba5
Synonyms:	5730525G14Rik; AW240750; Ube1dc1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR206322 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCGACTCGGTGGAGCGACTGCGACAGCGGGTTGAGGAGCTGGAGCAGGAATCGCCCCGGGAGAGAA
CCCGGCGCTCTGGAGGGGACGGCCACTGCGGCCGACCCGCATCCAGGAGATGAGCGACGAGGTGTTGGA
TTCCAATCCCTACAGCCGCTCTGATGGCATTGAAACGGATGGGAATTGTCAGTGACTATAAGAAAATCCGT
ACCTACGCTGTAGCAATAGTAGGTGTTGGTGGAGTTGGTAGTGTGACTGCTGAAATGCTGACAAGATGTG
GCATTGGTAAGCTGCTGCTCTTTGACTATGATAAGGTGGAGCTGGCCAACATGAATCGGCTTTTCTCCA
GCCATATCAAGCAGGACTGAGTAAGGTCCACGCAGCAGAACACACCCTGAGGAACATTAACCCTGATGTT
CTGTTTGAAGTCCACAATAACAATATCACCACAGTGGAACACTTTGAACATTTTCAATGAATAAGAATAAGTA
ATGGTGGATTAGAAGAAGGACAACCTGTTGACCTAGTTCTTAGCTGTGTGGACAACCTTTGAAGCTCGAAT
GGCAATAAATACAGCTTGTAAATGAACCTGGTCAGACATGGATGGAATCTGGGGTCAGTAAAAATGCAGTT
TCCGGGCACATCCAGCTGATGATCCCTGGAGAGTCGGCTTGCTTCGCGTGTGCGCCACCCTGTAGTTG
CTTCAAATATTGATGAAAAACCCTGAAACGAGAAGGCGTCTGCGCAGCCAGTCTCCCCACCACCATGGG
GGTGGTGGCCGGGATCTTGGTACAAAATGTAATAAAGTTTCTGTTAAAATTTGGCACTGTCAGTTTTTAC
CTTGGATACAATGCAATGCAGGATTTTTCCCTACCATGTTTCATGAAGCCAAACCCTCATTGTGATGACA
AAAACGTGAGAAAAGCAACAAGAAGAATACAAGAAGAGGGCAGCAGCACTGCCACGCAGGAGGCTGAGCC
CCAGGAGGAGGCAGAGGTGGTTCATGAGGACAACGAGTGGGGCATTGAGCTGGTGTCTGAGGTTTCAGAA
GAGGAATGAAGAACTTTCAGGTCTGTTCCACCTTACCTGAAGGCATTACAGTGGCATAACAGTCC
CAAAGAAGACGGAGGATTCGGCTTCTGAAGTAACAGTGAAGACTCTGGTGAAGCTTGAAGATCTTAT
GGCCAGGATGAAGACTATG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR206322 protein sequence
Red=Cloning site Green=Tags(s)

MADSVRLRQRVEELEQELARERTRRSGGDGHCGRTRIQEMSDEVLDSNPYSRLMALKRMGIVSDYKKIR
 TYAVAIQVGGVGSVTAEMLTRCGIGKLLLFDYDKVELANMNRLFFQPYQAGLSKVHAAEHLRNINPDV
 LFEVHNYNITTVHEHFEHFMNRI SNGGLEEGQPVLDLVLSCVDNFEARMAINTACNELGQTWMESGVSENAV
 SGHIQLMIPGESACFACAPPLVVASNIDEKTLKREGVCAASLPTTMGVVAGILVQNVLKFLLLKFGTVSFY
 LGYNAMQDFPPTMFMKPNPHCDDKNCRKQEEYKKRAAALPTQEAEPEEAEVVEDNEWGIELVSEVSE
 EELKNSSGPVPTLPEGITVAYTVPKKTEDSASEVTVEDSGESLEDL MARMKTM

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_025692

ORF Size: 1212 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_025692.3](#)

RefSeq Size: 2402 bp

RefSeq ORF: 1212 bp

Locus ID: 66663

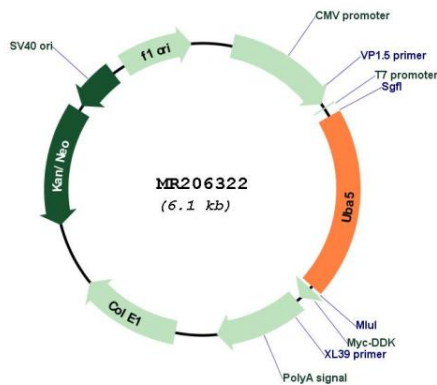
UniProt ID: [Q8VE47](#)

Cytogenetics: 9 F1

MW: 44.8 kDa

Gene Summary: E1-like enzyme which activates UFM1 and SUMO2.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR206322