

Product datasheet for **MR209672**

Uba2 (NM_016682) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Uba2 (NM_016682) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Uba2
Synonyms:	AA986091; Arx; Sae2; UBA1; Ubl1a2; Uble1b
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide
Sequence:

>MR209672 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCACTGTGCGGGGGTTGCCCGGGAGCTGGCCGAGCGGTGTCGCGCGCCGGGTGCTGGTGGTTG
GCGCGGGTGGGATCGGCTGTGAGCTGCTCAAGAACCTGGTGTCACTGGCTTCTCCACATCGACCTGAT
TGATCTGGACACTATCGATGTCAGCAACCTCAACAGGCAGTTCTTGTTCAAAAGAAACATGTGGGAAGA
TCAAAGGCTCAGGTTGCCAAAGAAAGTGTGCTCCAGTTCACCCCAAGCCAACATTGAGGCTCACCATG
ACAGCATCATGAACCCAGACTATAATGTGGAGTTTTTCGACAGTTTATATTGGTCATGAATGCATTAGA
TAACAGAGCTGCACGAAACCACGTGAATAGGATGTGTCTGGCCGCTGATGTGCCTCTCATTGAGAGCGGG
ACTGCTGGGTATCTCGGACAGGTGACCACTATCAAGAAGGGTGTGACTGAGTGTACGAATGTCACCCTA
AGCCTACCCAGAGGACGTTCCCTGGCTGTACGATTCGGAACACACCTTCAGAACCTATCCATTGCATCGT
ATGGGCCAAGTATTTGTTCAACCAGCTGTTTGGAGAGGAAGATGCTGATCAAGAAGTGTCTCCTGACAGA
GCTGACCTGAGGCTGCTTGGGAACCAACAGAGGCTGAAGCTAGAGCTCGAGCATCTAATGAAGACGGAG
ACATTAAGCGTATTTCCACTAAGGAATGGGCTAAGTCAACTGGATATGATCCAGTAAAACTTTTACCAA
GCTTTTTAAAGATGATATTAGATATCTGCTGACAACTCTGGCGCAAGAGGAAACCTCCAGTT
CCACTGGACTGGGCTGAAGTGCAGAGTCAAGGAGAAGCCAATGCCGATCAACAAAATGAGCCCCAGTTGG
GTTTGAAGACCAGCAGGTTCTGGATGTAAAGAGCTATGCGAGTCTGTTTTCAAAGAGCATCGAGACTCT
GCGAGTCCATTTAGCGGAGAAGGGGGATGGAGCTGAGCTCATCTGGGATAAAGACGACCCACCTGCAATG
GATTTTGTACATCTGCTGCAAACCTCAGGATGCACATTTTCAGCATGAATATGAAGAGCAGGTTTGATA
TAAAATCAATGGCAGGGAATATCATTCCCTGCTATAGCTACTACTAATGCAGTGATCGCCGCTTGATAGT
GTTGGAAGGATTAAGATTTTATCTGGAAAAATAGACCAGTGTAGAATTTTTTTTTGAATAAGCAGCCA
AACCCAAGAAAGAAGCTCTTGGTGCCCTGTGCACTGGATCCTCCAACACCAACTGTTACGTTTTGTCCA
GCAAGCCAGAGGTGACTGTGCGGCTGAATGTCCACAAAGTACTGTCTCACCTTACAGGATAAGATAGT
GAAAGAAAAGTTTGCTATGGTGGCACCAGATGTCCAAATTGAAGATGGGAAAGGCACAATCCTGATATCT
TCAGAAGAGGGAGAGACAGAAGCCAATAACCCCAAGAAGTTGTCTGATTTTGAATTAGAAAACGGCAGCC
GGCTTCAAGCAGACGACTTCTCCAGGACTATACTTTGCTGATCAACATCTTTCATAGTGAAGATCTTGG
AAAGGATGTTGAATTTGAAGTAGTTGGTGACAGCCCTGAAAAAGTGGGGCCAAAACAAGCTGAAGATGCT
GCCAAAAGCATTGCCAACGGCAGCGATGACGGTGCCAGCCTTCCACCTCCACAGCACAAGAGCAAGATG
ATGTGCTCATAGTTGATTCAGACGAAGAAGGCCCTTCAAATAGCACCGACTGCAGCGGGGACGACAAGGC
CCGAAGCGGAAGCTGGAAGAGAATGAGGCTGCCAGTACCAAGAAGTGCCGCTTGAGCAGATGGAAGAT
CCAGATGACGTCATAGCGTTAGAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR209672 protein sequence
Red=Cloning site Green=Tags(s)

MALSRGLPRELAEAVSGGRVLVVGAGGIGCELLKNLVL TGF SHIDLIDLDTIDVSNLNRQFLFQKKHVGR
 SKAQVAKESVLQFHPQANIEAHHDSIMNPDYNEFFRQFILVMNALDNRAARNHVNRMC LAADVPLIESG
 TAGYLGQVTTIKKGVTECYECHPKPTQRTFPGCTIRNTPSEPIHCIVWAKYLFNQLFGEEDADQEVSPDR
 ADPEAAWEPTAEARARASNEGDGDIKRISTKEWAKSTGYDPVKLFTKLFKDDIRYLLTMDKLWRKRKPPV
 PLDWAQVQSQGEANADQQNEPQLGLKDQQLDVKSYASLFSKSIETLRVHLAEKGDGAELIWDKDDPPAM
 DFTVSAANLRMHIFSMNMKSRFDIKSMAGNIIPAIATTNAVIAGLIVLEGLKILSGKIDQCRTIFLNKQP
 NPRKLLVPCALDPNTNCYVCASKPEVTVRLNVHKVTVLTLDQKIVKEKFAMVAPDVQIEDGKGTILIS
 SEEGETEANNPKKLSDFGIRNGSRLQADDFLDQYTLINILHSEDLGKDVFEVVGDSPEKVGPKQAEDA
 AKSIANGSDDGAQPSTSTAQEQDDVLIVDSDEEGPSNSTDCSGDDKARKRKL EENEAASTKKCRLEQMED
 PDDVIALD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_016682

ORF Size: 1917 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_016682.2](#), [NP_057891.1](#)

RefSeq Size: 2524 bp

RefSeq ORF: 1917 bp

Locus ID: 50995

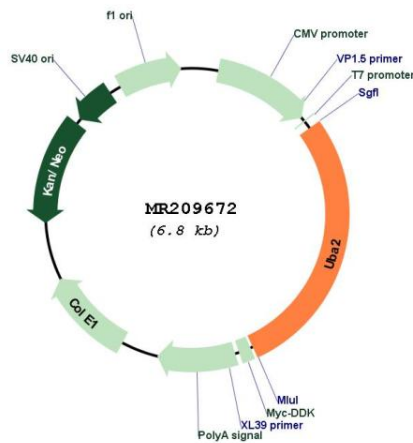
UniProt ID: [Q9Z1F9](#)

Cytogenetics: 7 B1

MW: 70.6 kDa

Gene Summary: The heterodimer acts as an E1 ligase for SUMO1, SUMO2, SUMO3, and probably SUMO4. It mediates ATP-dependent activation of SUMO proteins followed by formation of a thioester bond between a SUMO protein and a conserved active site cysteine residue on UBA2/SAE2 (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR209672