

Product datasheet for **MC202700**

Uba2 (NM_016682) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Uba2 (NM_016682) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Uba2
Synonyms:	AA986091; Arx; Sae2; UBA1; Ubl1a2; Uble1b
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC054768 sequence for NM_016682
 GGTTCCTCCCGCTCCGACTGTGAGGCGGCTCGTAGACGTCCC GCCATGGCACTGTGCGGGGGTTGCCCC
 GGGAGCTGGCCGAGGCGGTGTCCGGCGCCGGGTGCTGGTGGTTGGCGGGTGGGATCGGCTGTGAGCT
 GCTCAAGAACCTGGTGTCTACTGGCTTCTCCACATCGACCTGATTGATCTGGACTATCGATGTCAGC
 AACCTCAACAGGCAGTTCTTGTTCAAAAGAAACATGTGGGAAGATCAAAGGCTCAGGTTGCCAAAGAAA
 GTGTGCTCCAGTCCACCCCAAGCCAACTTGAAGCTCACCATGACAGCATCATGAACCCAGACTATAA
 TGTGGAGTTTTTTCGACAGTTTATTTGGTCATGAATGCATTAGATAACAGAGCTGCACGAAACCCAGTG
 AATAGGATGTGTCTGGCCGCTGATGTGCCTCTCATTGAGAGCGGGACTGCTGGGTATCTCGACAGGTGA
 CCACTATCAAGAAGGGTGTGACTGAGTGTACGAATGTCACCCTAAGCCTACCCAGAGGACGTTCCCTGG
 CTGTACGATTCGGAACACACCTTCAAGACCTATCCATTGCATCGTATGGGCCAAGTATTTGTTCAACCCAG
 CTGTTTGGAGAGGAAGATGCTGATCAAGAAGTGTCTCCTGACAGAGCTGACCCTGAGGCTGCTTGGGAAC
 CAACAGAGGCTGAAGCTAGAGCTCGAGCATCTAATGAAGACGGAGACATTAAGCGTATTTCCACTAAGGA
 ATGGGCTAAGTCAACTGGATATGATCCAGTTAACTTTTTACCAAGCTTTTTAAAGATGATATTAGATAT
 CTGCTGACAATGGACAACTCTGGCGCAAGAGGAAACCTCCAGTCCACTGGACTGGGCTGAAGTGCAGA
 GTCAAGGAGAAGCCAATGCCGATCAACAAAATGAGCCCCAGTTGGGTTTAAAAGACCAGCAGGTTCTGGA
 TGTAAAGAGCTATGCGAGTCTGTTTTCAAAGAGCATCGAGACTCTGCGAGTCCATTTAGCGGAGAAGGGG
 GATGGAGCTGAGCTCATCTGGGATAAAGGACGCCACCTGCAATGGATTTTGTACATCTGCTGCAACCC
 TCAGGATGCACATTTTCAGCATGAATATGAAGAGCAGGTTTGATATAAAATCAATGGCAGGGAATATCAT
 TCCTGCTATAGCTACTACTAATGCAGTGATCGCCGGCTTGATAGTGTGGAAAGGATTAAGATTTTATCT
 GGAAAAATAGACCAGTGTAGAATTTTTTTTGAATAAGCAGCCAAACCAAGAAAGAAGCTCTTGGTGC
 CCTGTGCACTGGATCCTCCCAACACCAACTGTTACGTTTTGTGCCAGCAAGCCAGAGGTGACTGTGCGGCT
 GAATGTCCACAAAAGTACTGTCTCACCTTACAGGATAAGATAGTAAAAGAAAAGTTTGTATGGTGGCA
 CCAGATGTCCAAAATTGAAGATGGGAAAGGCACAATCCTGATATCTTCAGAAGAGGGAGAGACAGAAGCCA
 ATAACCCCAAGAAGTTGTCTGATTTTTGGAATTAGAAAACGGCAGCCGGCTTCAAGCAGACGACTTCTCCA
 GGACTATACTTTGCTGATCAACATTTCTCATAGTGAAGATCTTGGAAAGGATGTTGAATTTGAAGTAGTT
 GGTGACAGCCCTGAAAAAGTGGGGCCAAAACAAGCTGAAGATGCTGCCAAAAGCATTGCCAACGGCAGCG
 ATGACGGTGCCAGCCTTCCACCTCCACAGCACAAGAGCAAGATGATGTGCTCATAGTTGATTCAGACGA
 AGAAGGCCCTTCAAATAGCACCGACTGCAGCGGGGACGACAAGGCCCGCAAGCGGAAGCTGGAAGAGAA
 GAGGCTGCCAGTACCAAGAAGTCCGCTTGGAGCAGATGGAAGATCCAGATGACGTCATAGCGTTAGACT
 GAGCAGGCTCCTGCCCTTGGTCTGGTCCGAACCAAAAAGTTAGATCCTTTGTGTGGCTTTGATGGTCCGT
 TCAGCGTTCATTTGCTGAGACTGTTGAGACTGTTGCTGTGTTGAAGTAGGAATAGAATTTGCAACCCCT
 TGAGCAAAGCTGGGTGATGAGCTGAAAGAACCGGGCGTGCATGTTGCCTTCCCTGTAATAGCCTTAGC
 TATCATTTCTAGTGAAAAACACTGTGGGGTAGGAACGCTGCAACCTGGGTATAAATATTATGCCTTTAT
 TTTTGGCTAGAGAAAAGTTATTTTTAGCCTAGATCTAACCATTTTCATACTCTTACCTGAAAAGTTACACA
 GAAGTGTCAAGTGCTATGCATTGAAACTTGTTTTTTAAACATTACCTGGCACTGTGTATTAATGTAAA
 ACAATGTTAATTTACCCAGATTTTCAAGTTTGTACTGCCTGGTATGTCTGTGTAAGAAGCCAAATTTTGTG
 TATTTGTTACAGTTTCAAGTTATTTATTTGATGTTTTGTAACCTCAACAACAATACTGTACTTA
 TGGACCAATAAATGATGTCTGCATACTGTCTGACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

- Restriction Sites:** Ascl-NotI
- ACCN:** NM_016682
- Insert Size:** 1917 bp
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- 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: [BC054768](#), [AAH54768](#)

RefSeq Size: 2588 bp

RefSeq ORF: 1917 bp

Locus ID: 50995

UniProt ID: [Q9Z1F9](#)

Cytogenetics: 7 B1

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]