

Product datasheet for **RC201288**

UBA2 (NM_005499) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	UBA2 (NM_005499) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	UBA2
Synonyms:	ARX; HRIHFB2115; SAE2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide
Sequence:

>RC201288 representing NM_005499
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCCGCATCGCC

ATGGCACTGTGCGGGGGCTGCCCGGGAGCTGGCTGAGGCGGTGGCCGGGGCCGGGTGCTGGTGGTGG
GGGCGGGCGGCATCGGCTGCGAGCTCCTCAAGAATCTCGTGCTCACCGTTTCTCCACATCGACCTGAT
TGATCTGGATACTATTGATGTAAGCAACCTCAACAGACAGTTTTTTGTTTCAAAGAAACATGTTGGAAGA
TCAAAGGCACAGGTTGCCAAGGAAAGTGTACTGCAGTTTTACCCGAAAGCTAATATCGTTGCCTACCATG
ACAGCATCATGAACCTGACTATAATGTGGAATTTTTCCGACAGTTTATACTGGTTATGAATGCTTTAGA
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AGCCGACCCAGAGAACCTTCTGGCTGTACAATTCGTAACACACCTTCAGAACCTATACATTGCATCGT
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GCTTTTTAAAGATGACATCAGGTATCTGTTGACAACTATGGCGGAAAAGGAAACCTCCAGTT
CCGTTGGACTGGGCTGAAGTACAAAGTCAAGGAGAAGAAACGAATGCATCAGATCAACAGAATGAACCC
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TTGATATCAAATCAATGGCAGGGAACATTATTCCTGCTATTGCTACTACTAATGCAGTAATTGCTGGGTT
GATAGTATTGGAAGGATTGAAGATTTTATCAGGAAAAATAGACCAGTGCAGAACAAATTTTTTTGAATAAA
CAACCAAACCAAGAAAGAAGCTTCTTGTGCCTTGTGCACTGGATCCTCCAACCCCAATTGTTATGTAT
GTGCCAGCAAGCCAGAGGTGACTGTGCGGCTGAATGTCCATAAAGTACTGTTCTCACCTTACAAGACAA
GATAGTAAAAGAAAAATTTGCTATGGTAGCACCAGATGTCCAAATTGAAGATGGGAAAGGAACAATCCTA
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GCAGCCGGCTTCAAGCAGATGACTTCTCCAGGACTATACTTTATTGATCAACATCCTTCATAGTGAAGA
CCTAGGAAAGGACGTTGAATTTGAAGTTGTTGGTATGCCCGGAAAAAGTGGGGCCAAACAAGCTGAA
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GAGAAGCCGAAGAGGAAATTAGATGAGAAAGAGAATCTCAGTGCAAAGAGGTCACGTATAGAACAGAAG
GAAGAGCTTGATGATGTCATAGCATTAGAT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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_005499.1](#)

RefSeq Size: 2682 bp

RefSeq ORF: 1923 bp

Locus ID: 10054

UniProt ID: [Q9UBT2](#)

Cytogenetics: 19q13.11

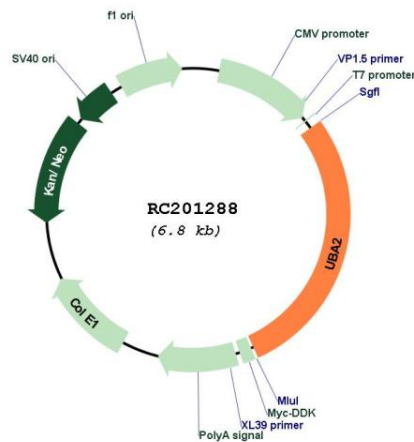
Domains: UBACT, ThiF

Protein Pathways: Ubiquitin mediated proteolysis

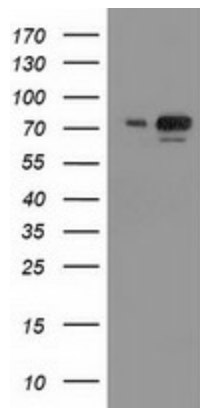
MW: 71 kDa

Gene Summary: Posttranslational modification of proteins by the addition of the small protein SUMO (see SUMO1; MIM 601912), or sumoylation, regulates protein structure and intracellular localization. SAE1 (MIM 613294) and UBA2 form a heterodimer that functions as a SUMO-activating enzyme for the sumoylation of proteins (Okuma et al., 1999 [PubMed 9920803]). [supplied by OMIM, Mar 2010]

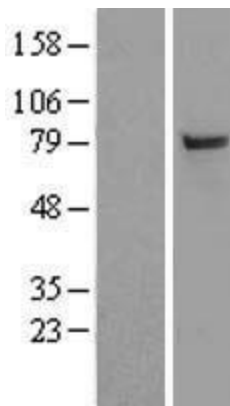
Product images:



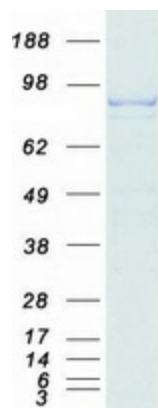
Circular map for RC201288



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY UBA2 (Cat# RC201288, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-UBA2 (Cat# [TA502504]). Positive lysates [LY417267] (100ug) and [LC417267] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY417267]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC201288 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified UBA2 protein (Cat# [TP301288]). The protein was produced from HEK293T cells transfected with UBA2 cDNA clone (Cat# RC201288) using MegaTran 2.0 (Cat# [TT210002]).