

Product datasheet for RC214495

UBA52 (NM_001033930) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: UBA52 (NM_001033930) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: UBA52
Synonyms: CEP52; HUBCEP52; L40; RPL40
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC214495 representing NM_001033930
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCAGATCTTTGTGAAGACCCTCACTGGCAAACCATCACCTTGAGGTCGAGCCCAGTGACACCATTG
 AGAATGTCAAAGCCAAAATTCAAGACAAGGAGGTATCCACCTGACCAGCAGCGTCTGATATTTGCCGG
 CAAACAGCTGGAGGATGGCCGACTCTCTCAGACTACAACATCCAGAAAGAGTCCACCCTGCACCTGGTG
 TTGCGCCTGCGAGGTGGCATTATTGAGCCTTCTCTCGCCAGCTTGCCCAAGAAATACAATGCGACAAGA
 TGATCTGCCGCAAGTGCTATGCTCGCCTTCACCCTCGTGCTGCAACTGCCCAAGAAGAAGTGTGGTCA
 CACCAACAACCTGCGTCCCAAGAAGAAGGTCAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC214495 representing NM_001033930
 Red=Cloning site Green=Tags(s)

MQIFVKLTGKTITLEVEPSDTIENVKAKIQDKEGIPPDQQRLLIFAGKQLEDGRTLSDYNIQKESTLHLV
 LRLRGGIIEPSLRQLAQKYNCDKMICRKYARLHPRAVNCRKKCGHTNNLRPKKKVK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mg2875_d12.zip

Restriction Sites: SgfI-MluI



[View online »](#)

Cloning Scheme:


ACCN: NM_001033930

ORF Size: 384 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_001033930.3](#)

RefSeq Size: 2823 bp

RefSeq ORF: 387 bp

Locus ID: 7311
 UniProt ID: [P62987](#)
 Cytogenetics: 19p13.11

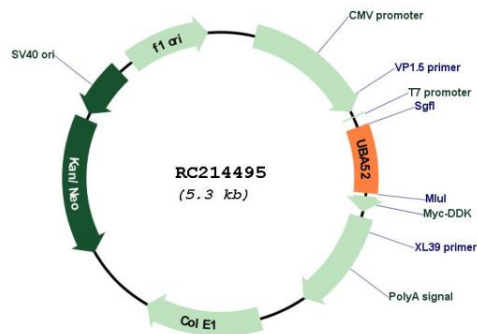
Protein Families: Druggable Genome, Transcription Factors

Protein Pathways: Ribosome

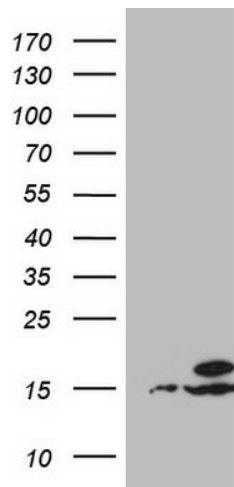
MW: 14.5 kDa

Gene Summary: Ubiquitin is a highly conserved nuclear and cytoplasmic protein that has a major role in targeting cellular proteins for degradation by the 26S proteasome. It is also involved in the maintenance of chromatin structure, the regulation of gene expression, and the stress response. Ubiquitin is synthesized as a precursor protein consisting of either polyubiquitin chains or a single ubiquitin moiety fused to an unrelated protein. This gene encodes a fusion protein consisting of ubiquitin at the N terminus and ribosomal protein L40 at the C terminus, a C-terminal extension protein (CEP). Multiple processed pseudogenes derived from this gene are present in the genome. [provided by RefSeq, Jul 2008]

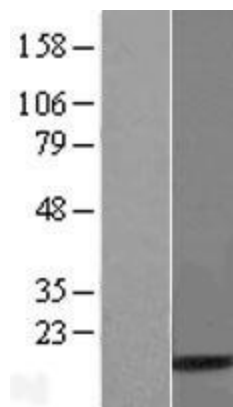
Product images:



Circular map for RC214495



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY UBA52 (Cat# RC214495, 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-UBA52 (Cat# [TA807200])(1:2000). Positive lysates [LY425589] (100ug) and [LC425589] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY422429]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC214495 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).