

Product datasheet for **RC209696**

RPS27A (NM_002954) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: RPS27A (NM_002954) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: RPS27A
Synonyms: CEP80; HEL112; S27A; UBA80; UBC; UBCEP1; UBCEP80
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RC209696 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGCAGATTTTCGTGAAAACCCCTACGGGGAAGACCATCACCCCTCGAGGTTGAACCCCTGGATACGATAG
AAAATGTAAGGCCAAGATCCAGGATAAGGAAGGAATTCCTCTGATCAGCAGAGACTGATCTTTGCTGG
CAAGCAGCTGGAAGATGGACGTACTTTGTCTGACTACAATATTCAAAGGAGTCTACTCTTCATCTTG
TTGAGACTTCGTGGTGGTCTAAGAAAAGGAAGAAGTCTTACACCACTCCCAAGAAGAATAAGCACA
AGAGAAAAGAGGTTAAGCTGGCTGCTCCTGAAATATTATAAGGTGGATGAGAATGGCAAATTAGTCGCCT
TCGTCGAGAGTGCCTTCTGATGAATGTGGTGTGGGGTGTATGGCAAGTCACTTTGACAGACATTAT
TGTGGCAAATGTTGTCTGACTTACTGTTTCAACAAACCAGAAGACAAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC209696 protein sequence
Red=Cloning site Green=Tags(s)

MQIFVKLTGKTITLEVEPSDTIENVKAKIQDKEGIPPDQQRLLIFAGKQLEDGRTLSDYNIQKESTLHLV
LRLRGGAKRKKKSYTTPKKNKHKKVKLAVLKYYKVDENKISRRLRRECPSECEGAGVFMASHFDRHY
CGKCLTYCFNKPEDK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

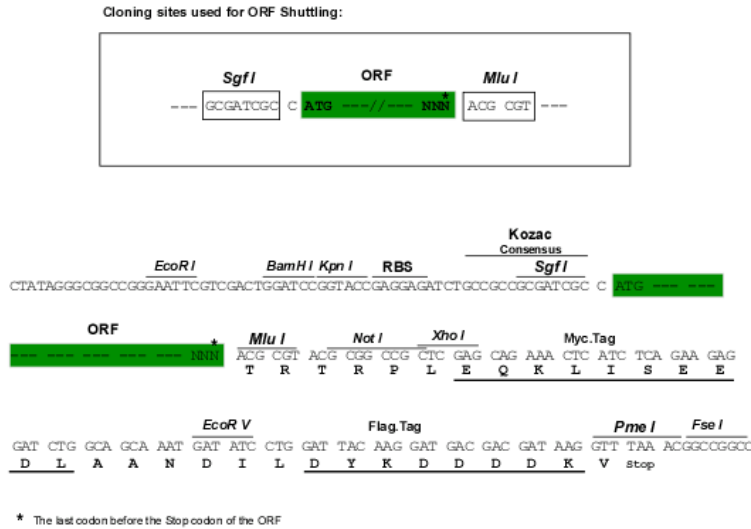
Chromatograms: https://cdn.origene.com/chromatograms/mk6087_c02.zip

Restriction Sites: SgfI-MluI

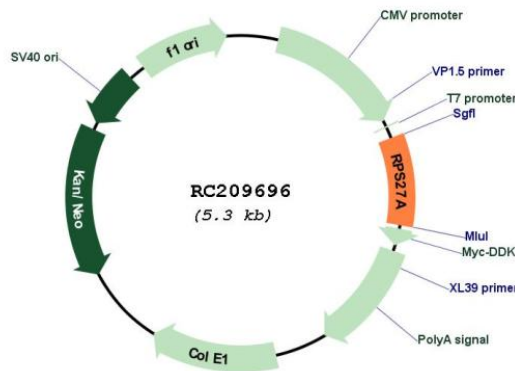


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Cloning Scheme:



Plasmid Map:



ACCN: NM_002954

ORF Size: 468 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_002954.5](#)

RefSeq Size: 1068 bp

RefSeq ORF: 471 bp

Locus ID: 6233

UniProt ID: [P62979](#)

Cytogenetics: 2p16.1

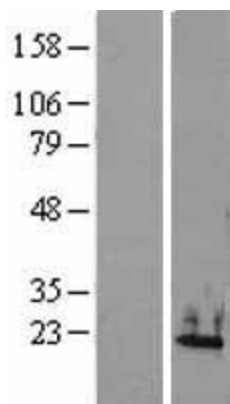
Domains: UBQ, Ribosomal_S27

Protein Families: Druggable Genome

Protein Pathways: Ribosome

MW: 18 kDa

Gene Summary: Ubiquitin, a highly conserved protein that has a major role in targeting cellular proteins for degradation by the 26S proteasome, is synthesized as a precursor protein consisting of either polyubiquitin chains or a single ubiquitin fused to an unrelated protein. This gene encodes a fusion protein consisting of ubiquitin at the N terminus and ribosomal protein S27a at the C terminus. When expressed in yeast, the protein is post-translationally processed, generating free ubiquitin monomer and ribosomal protein S27a. Ribosomal protein S27a is a component of the 40S subunit of the ribosome and belongs to the S27AE family of ribosomal proteins. It contains C4-type zinc finger domains and is located in the cytoplasm. Pseudogenes derived from this gene are present in the genome. As with ribosomal protein S27a, ribosomal protein L40 is also synthesized as a fusion protein with ubiquitin; similarly, ribosomal protein S30 is synthesized as a fusion protein with the ubiquitin-like protein fubi. Multiple alternatively spliced transcript variants that encode the same proteins have been identified.[provided by RefSeq, Sep 2008]

Product images:

Western blot validation of overexpression lysate (Cat# [LY427628]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with [RC227076] using transfection reagent MegaTran 2.0 (Cat# [TT210002]).