

Product datasheet for RC201213

RPS3A (NM_001006) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RPS3A (NM_001006) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	RPS3A
Synonyms:	FTE1; MFTL; S3A
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC201213 representing NM_001006 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGTTGGCAAGAACAAGCGCCTTACGAAAGGCGGCAAAAAGGGAGCCAAGAAGAAAGTGGTTGATC
CATTTTCTAAGAAAGATTGGTATGATGTGAAAGCACCTGCTATGTTCAATATAAGAAATATTGGAAAGAC
GCTCGTCACCAGGACCCAAGGAACCAAAATTGCATCTGATGGTCTCAAGGGTCGTGTGTTGAAGTGAGT
CTTGCTGATTTGCAGAATGATGAAGTTCATTTAGAAAATCAAGCTGATTACTGAAGATGTTCCAGGTA
AAAAGTGCCTGACTAACTCCATGGCATGGATCTTACCCGTGACAAAATGTGTTCCATGGTCAAAAATG
GCAGACAATGATTGAAGCTCACGTTGATGTCAAGACTACCGATGGTACTTGCTTCGTCTGTCTGTGTT
GGTTTTACTAAAAACGCAACAATCAGATACGGAAGACCTCTTATGCTCAGCACCAACAGTCCGCCAAA
TCCGGAAGAAGATGATGGAAATCATGACCCGAGAGGTGCAGACAAATGACTTGAAAGAAGTGGTCAATAA
ATTGATCCAGACAGCATTGGAAAAGACATAGAAAAGGCTTGCCAATCTATTTATCCTCTCCATGATGTC
TTCGTTAGAAAAGTAAAAATGCTGAAGAAGCCCAAGTTTGAATTGGGAAAGCTCATGGAGCTTCATGGTG
AAGGCAGTAGTTCTGAAAAGCCACTGGGGACGAGACAGGTGCTAAAGTTGAACGAGCTGATGGATATGA
ACCACAGTCCAAGAATCTGTT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC201213 representing NM_001006
Red=Cloning site Green=Tags(s)

MAVGKNKRLTKGGKKGAKKKVVDPFSSKKDWYDVKAPAMFNIRNIGKTLVTRTQGTKIASDGLKGRVFEVS
 LADLQNDQVAFRKFKLI TEDVQGNCLTNFHGMDLTRDKMCSMVKKWQTMIEAHVDVKT TDGYLLR LFCV
 GFTKKRNNQIRKTSYAQHQQVRQIRKKMMEIMTREVQTNDLKEVNVKLI PDSIGKIDIEAKCQSIYPLHDV
 FVRKVKMLKKPKFELGKLMELHGE GSSSGKATGDETGAKVERADGYEPPVQESV

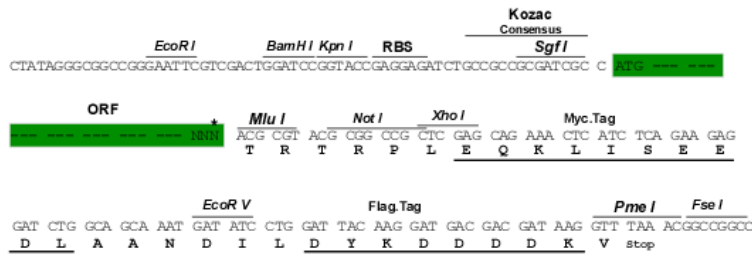
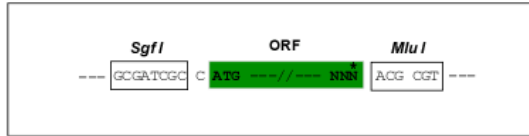
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/ja1493_e11.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001006

ORF Size: 792 bp

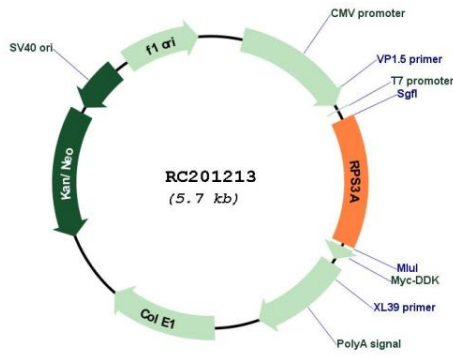
OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

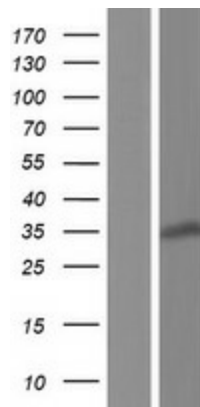
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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:	<ol style="list-style-type: none">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:	<u>NM_001006.5</u>
RefSeq Size:	930 bp
RefSeq ORF:	795 bp
Locus ID:	6189
UniProt ID:	<u>P61247</u>
Cytogenetics:	4q31.3
Domains:	Ribosomal_S3Ae
Protein Pathways:	Ribosome
MW:	29.8 kDa
Gene Summary:	Ribosomes, the organelles that catalyze protein synthesis, consist of a small 40S subunit and a large 60S subunit. Together these subunits are composed of 4 RNA species and approximately 80 structurally distinct proteins. This gene encodes a ribosomal protein that is a component of the 40S subunit. The protein belongs to the S3AE family of ribosomal proteins. It is located in the cytoplasm. Disruption of the gene encoding rat ribosomal protein S3a, also named v-fos transformation effector protein, in v-fos-transformed rat cells results in reversion of the transformed phenotype. This gene is co-transcribed with the U73A and U73B small nucleolar RNA genes, which are located in its fourth and third introns, respectively. As is typical for genes encoding ribosomal proteins, there are multiple processed pseudogenes of this gene dispersed through the genome. Alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, May 2012]

Product images:



Circular map for RC201213



Western blot validation of overexpression lysate (Cat# [LY423675]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC201213 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).