

Product datasheet for RC219170

RPS18 (NM_022551) Human Tagged ORF Clone

Product data:

OriGene Technologies, Inc.

9620 Medical Center Drive, Ste 200 Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com CN: techsupport@origene.cn

Product Type:	Expression Plasmids
Product Name:	RPS18 (NM_022551) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	RPS18
Synonyms:	D6S218E; HKE3; KE-3; KE3; S18
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	<pre>>RC219170 representing NM_022551 Red=Cloning site Blue=ORF Green=Tags(s)</pre>
	TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCC <mark>GCGATCGC</mark> C
	ATGTCTCTAGTGATCCCTGAAAAGTTCCAGCATATTTTGCGAGTACTCAACACCAACATCGATGGGCGGC GGAAAATAGCCTTTGCCATCACTGCCATTAAGGGTGTGGGCCCGAAGATATGCTCATGTGGTGTTGAGGAA AGCAGACATTGACCTCACCAAGAGGGCGGGAGAACTCACTGAGGATGGAGGTGGAACGTGTGATCACCATT ATGCAGAATCCACGCCAGTACAAGATCCCAGACTGGTTCTTGAACAGACAG
	ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAG GTTTAA
Protein Sequence:	<pre>>RC219170 representing NM_022551 Red=Cloning site Green=Tags(s)</pre>
	MSLVIPEKFQHILRVLNTNIDGRRKIAFAITAIKGVGRRYAHVVLRKADIDLTKRAGELTEDEVERVITI MQNPRQYKIPDWFLNRQKDVKDGKYSQVLANGLDNKLREDLERLKKIRAHRGLRHFWGLRVRGQHTKTTG RRGRTVGVSKKK
	TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Chromatograms:	https://cdn.origene.com/chromatograms/mk6037_d10.zip



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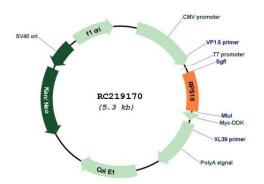
ORIGENE RPS18 (NM_022551) Human Tagged ORF Clone – RC219170

 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. <u>More info</u> 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 liqui at the bottom. 	Restriction Sites:	Sgfl-Mlul
Image: Control of the control of th	Cloning Scheme:	Sgfi ORF Miu i
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ACCN:NM_022551DRF Size:456 bpDTI 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 throug 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 infoDTI Annotation:This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.DTM ONEThe 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) 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 liqui at the bottom. 5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date o shipping when stored at -20°C.RefSeq Size:549 bpRefSeq ORF:459 bp		gat ctg gca gca aat gat atc ctg gat tac aag gat gac gac gat aag gtt taa acgeccegec
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RefSeq ORF: 459 bp	RefSeq:	<u>NM 022551.3</u>
	efSeq Size:	549 bp
ocus ID: 6222	RefSeq ORF:	459 bp
	ocus ID:	6222

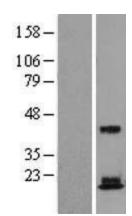
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GRIGENE RPS18 (NM_022551) Human Tagged ORF Clone – RC219170		
UniProt ID:	<u>P62269</u>	
Cytogenetics:	6p21.32	
Domains:	Ribosomal_S13	
Protein Pathways:	Ribosome	
MW:	17.5 kDa	
Gene Summary:	Ribosomes, the organelles that catalyze protein synthesis, 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 S13P family of ribosomal proteins. It is located in the cytoplasm. The gene product of the E. coli ortholog (ribosomal protein S13) is involved in the binding of fMet-tRNA, and thus, in the initiation of translation. This gene is an ortholog of mouse Ke3. As is typical for genes encoding ribosomal proteins, there are multiple processed pseudogenes of this gene dispersed through the genome. [provided by RefSeq, Jul 2008]	

Product images:



Circular map for RC219170



Western blot validation of overexpression lysate (Cat# [LY402931]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC219170 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

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