

Product datasheet for **SC301109**

RSK1 p90 (RPS6KA1) (NM_001006665) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RSK1 p90 (RPS6KA1) (NM_001006665) Human Untagged Clone
Tag:	Tag Free
Symbol:	RSK1 p90
Synonyms:	HU-1; MAPKAPK1; MAPKAPK1A; p90Rsk; RSK; RSK1
Vector:	<u>pCMV6 series</u>



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Fully Sequenced ORF: >NCBI ORF sequence for NM_001006665, the custom clone sequence may differ by one or more nucleotides

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ATGGAGCAGGATCCCAAGCCGCCCGTCTGCGGCTCTGGGCCCTGATCCCCTGGCTTCCC
AGGAAGCAGCGGCCAGGATCAGCCAGACCTCTCTGCCTGCCCTGGCCCTGGCTCTGGC
CCCCAGCGGGACTCGGATGAGGGCGTCCCAAGGAGATCTCCATCACGCACCACGTCAAG
GCTGGCTCTGAGAAGGCTGATCCATCCCATTTCGAGCTCCTCAAGTTCTGGGCCAGGGA
TCCTTTGGCAAAGTCTTCTGGTGGCGGAAAGTCAACCCGGCCTGACAGTGGGCACCTGTAT
GCTATGAAGGTGCTGAAGAAGGCAACGCTGAAAGTACGTGACCGCTCCGGACCAAGATG
GAGAGAGACATCCTGGCTGATGTAATCACCCATTCTGTTGGAAGCTGCACTATGCCTTC
CAGACCGAGGGCAAGCTCTATCTCATTCTGGACTTCTGCGTGGTGGGGACCTCTTACC
CGGCTCTCAAAGAGGTGATGTTACGGAGGAGGATGTAAGTTTTACCTGGCCGAGCTG
GCTCTGGGCTGGATCACCTGCACAGCCTGGGTATCATTACAGAGACCTCAAGCCTGAG
AACATCCTTCTGGATGAGGAGGGCCACATCAAACACTACTGACTTTGGCCTGAGCAAAGAG
GCCATTGACCACGAGAAGAAGGCCTATTCTTTCTGCGGGACAGTGGAGTACATGGCCCT
GAGGTCGTCAACCGCCAGGGCCACTCCCATAGTGGGACTGGTGGTCTATGGGGTGTG
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CTTTGCGGGCCCTGTTCAAGCGGAATCCTGCCAACCGGCTCGGCTCCGGCCCTGATGGG
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GACACCGAGTTACGTCGCCACACCCAAGGATCCCCAGGCATCCCCCAGCGCTGGG
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CTGGTTTTTAGTGACGGCTACGTGGTAAAGGAGACAATTGGTGTGGGCTCCTACTCTGAG
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GATGAAGGCTGCGACATCTGGAGCCTGGGCATTCTGCTGTACACCATGCTGGCAGGATAT
ACTCCATTTGCCAACGGTCCCAGTGACACACCAGAGGAAATCCTAACCCGGATCGGCAGT
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GTGTCCAAGATGCTACACGTGGATCCCCACCAGCGCTCACAGCTAAGCAGGTTCTGCAG
CATCCATGGGTACCCAGAAAGACAAGCTTCCCCAAAGCCAGCTGTCCACCAGGACCTA
CAGCTTGTGAAGGGAGCCATGGCTGCCACGTACTCCGCACTCAACAGCTCCAAGCCCACC
CCCCAGCTGAAGCCCATCGAGTCATCCATCCTGGCCCAGCGGCGAGTGAGGAAGTTGCCA
TCCACCACCCTGTGA

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Restriction Sites: Please inquire

ACCN: NM_001006665

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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_001006665.1</u> , <u>NP_001006666.1</u>
RefSeq Size:	3112 bp
RefSeq ORF:	2235 bp
Locus ID:	6195
UniProt ID:	<u>Q15418</u>
Cytogenetics:	1p36.11
Protein Families:	Druggable Genome, Protein Kinase
Protein Pathways:	Long-term potentiation, MAPK signaling pathway, mTOR signaling pathway, Neurotrophin signaling pathway, Oocyte meiosis, Progesterone-mediated oocyte maturation
Gene Summary:	<p>This gene encodes a member of the RSK (ribosomal S6 kinase) family of serine/threonine kinases. This kinase contains 2 nonidentical kinase catalytic domains and phosphorylates various substrates, including members of the mitogen-activated kinase (MAPK) signalling pathway. The activity of this protein has been implicated in controlling cell growth and differentiation. Alternate transcriptional splice variants, encoding different isoforms, have been characterized. [provided by RefSeq, Jul 2008]</p> <p>Transcript Variant: This variant (2) differs in the 5' UTR and 5' end of the coding region compared to variant 1. These differences cause translation initiation at an in-frame AUG of an alternate exon and an isoform (b) with a distinct N-terminus compared to isoform a.</p>