

Product datasheet for **SC114987**

RSK4 (RPS6KA6) (NM_014496) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RSK4 (RPS6KA6) (NM_014496) Human Untagged Clone
Tag:	Tag Free
Symbol:	RSK4
Synonyms:	p90RSK6; PP90RSK4; RSK-4; RSK4; S6K-alpha-6
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

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>OriGene ORF sequence for NM_014496 edited
ATGCTACCATTCGCTCCTCAGGACGAGCCCTGGGACCGAGAAATGGAAGTGTTTCAGCGGC
GGCGGCGCGAGCAGCGGCGAGGTAAATGGTCTTAAAATGGTTGATGAGCCAATGGAAGAG
GGAGAAGCAGATTCTTGTATGATGAAGGAGTTGTTAAAGAAATCCCTATTACTCATCAT
GTTAAGGAAGGCTATGAGAAAGCAGATCCTGCACAGTTTGAGTTGCTCAAGGTTCTTGGT
CAGGGGTCATTTGAAAAGGTTTTCTTGTAGAAAAGAAGACCGGTCCTGATGCTGGGCAG
CTCTATGCAATGAAGGTGTTAAAAAAGCCTCTTAAAAGTTTCGAGACAGAGTTCCGGACA
AAGATGGAGAGGGATATACTGGTGAAGTAAATCATCCATTTATTGTCAAATTGCACTAT
GCCTTTCAGACTGAAGGAAACTGTACTTAATACTGGATTTTCTCAGGGGAGGAGATGTT
TTCACAAGATTATCCAAAGAGGTTCTGTTTACAGAGGAAGATGTGAAATTCACCTCGCA
GAACTGGCCCTTGGTGGATCATCTGCACCAATTAGGAATTGTTTATAGAGACCTGAAG
CCAGAAAAACATTTGCTTGTATGAAATAGGACATATCAAATTAACAGATTTTGGACTCAGC
AAGGAGTCAGTAGATCAAGAAAAGAAGGCTTACTATTTTGTGGTACAGTAGAGTATATG
GCTCCTGAAGTAGTAAATAGGAGAGGCCATTCCCAGAGTGCTGATTGGTGGTCATATGGT
GTTCTTATGTTTTGAAATGCTTACTGGTACTCTGCCATTTCAAGGTAAGACAGAAATGAG
ACCATGAATATGATATTAAGCAAAAACCTTGAATGCCTCAATTTCTTAGTGCTGAAGCA
CAAAGTCTTCAAGGATGTTATTTCAAAGGAATCCAGCAATAGATTGGGATCAGAAAGGA
GTTGAAGAAATCAAAAGACATCTGTTTTTGCAAATATTGACTGGGATAAATTATATAAA
AGAGAAGTTCAACCTCCTTTCAAACCTGCTTCTGGAAAACAGATGATACTTTTTGTTTT
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GCTCATCAGCTCTTCAAAGGATTCAGCTTTGTTGCAACTTCTATTGCAGAAGAATATAAA
ATCACTCCTATCACAAGTGCAAATGTATTACCAATTGTTTCAGATAAATGGAATGCTGCA
CAATTTGGTGAAGTATATGAATTGAAGGAGGATATTGGTGTGGCTCCTACTCTGTTTTGC
AAGCGATGCATACATGCAACTACCAACATGGAATTTGCAGTGAAGATCATTGACAAAAAGT
AAGCGAGACCCTTCAGAAGAGATTGAAATATTGATGCGCTATGGACAACATCCCAACATT
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AAAGGAGGAGAGTTACTTGACCGTATTCTCAAACAAAAATGTTTTCTCGGAACGGGAGGCT
AGTGATACTATATGTAATAAGTAAGACAGTTGACTATCTTCATTGTCAAGGAGTTGTT
CATCGTGATCTTAAACCTAGTAATATTTTATACATGGATGAATCAGCCAGTGCAGATTCA
ATCAGGATATGTGATTTTGGGTTTGCAAAACAACCTCGAGGAGAAAATGGACTTCTCTTA
ACTCCATGCTACACTGCAAACCTTTGTTGCACCTGAGGTTCTTATGCAACAGGGATATGAT
GCTGCTTGTGATATCTGGAGTTTAGGAGTCCTTTTTTACACAATGTTGGCTGGCTACACT
CCATTTGCTAATGGCCCAATGATACTCCTGAAGAGATACTGCTGCGTATAGGCAATGGA
AAATTCCTTTGAGTGGTGGAACTGGGACAATATTTTCAGACGGAGCAAAGGATTTGCTT
TCCCATATGCTTCATATGGACCCACATCAGCGGTATACTGCTGAACAAATATTAAGCAC
TCATGGATAACTCACAGAGACCAGTTGCCAAATGATCAGCCAAAGAGAAATGATGTGTCA
CATGTTGTTAAGGGAGCAATGGTTGCAACATACTCTGCCCTGACTCACAAGACCTTTCAA
CCAGTCCTAGAGCCTGTAGCTGCTTCAAGCTTAGCCCAGCGACGGAGCATGAAAAAGCGA
ACATCAACTGGCCTGTAA
    
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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_014496 unedited GGGCACTATTTGTATACGACTCCTATAGCGCGCCGCGNAATTCGCACGAGGGCTCCGTGG AGTGGGCAGGTTTACCGAGGCGCTAGCAGGGGCTTTACTACTCTTCAGTCGCCTCCCA GCCAGCTCCCAGCCTCTGAGAGACCCGGCGGCGGCGGCGGGCCAGTTCAATAGACA GGATGCGCGGCCGCGCCAGCGGTAGGCGGCAGCTCCTGTTTGAGTGCTCCTGAAGGGGAG ATGCTACCATTGCTCCTCAGGACGAGCCCTGGACCGAGAAAATGGAAGTGTTCAGCGGC GGCGGCGGAGCAGCGGCGAGGTAATGGTCTTAAAATGGTTGATGAGCCAATGGAAGAG GGAGAAGCAGATTCTTGTATGATGAAGGAGTTGTTAAAGAAAATCCCTATTACTCATCAT GTTAAGGAAGGCTATGAGAAAAGCAGATCCTGCACAGTTTGAGTTGCTCAAGGTTCTTGGT CAGGGGTCATTTGGAAAGGTTTTCTTGTAGAAAAGAAGACCGGTCTGATGCTGGGCAG CTCTATGCAATGAAGGTGTTAAAAAAGCCTCTTAAAAGTTTCGAGACAGAGTTCGGACA AAGATGGAGAGGGATATACTGGTGAAGTAAATCATCCATTTATTGTCAAATTGCACTAT GCCTTTCAGACTGAAGGAACTGTACTTAATACTGGATTTTCTCAGGGGAGGAGATGTT TTCACAAGATTATCCAAAGAGGTTCTGTTTACAGAGGAAGATGTGAAATTCTACCTCGCA GAACTGGCCCTTGCTTTGGATCATCTGCACCAATTAGGAATTGTTTATAGAGACCTGAAG CCAGANACATTTTGCTTGATGAAATAGGACATATCAAATTAACCAAGATTGGACTCAGC AGGNAGTCAGTAGATCAAGAAAAGAAGGCTT
Restriction Sites:	NotI-NotI
ACCN:	NM_014496
Insert Size:	5300 bp
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_014496.1, NP_055311.1</u>
RefSeq Size:	2640 bp
RefSeq ORF:	2238 bp
Locus ID:	27330
UniProt ID:	<u>Q9UK32</u>

Cytogenetics:	Xq21.1
Domains:	pkinase, S_TK_X, TyrKc, S_TKc
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 ribosomal S6 kinase family, serine-threonine protein kinases which are regulated by growth factors. The encoded protein may be distinct from other members of this family, however, as studies suggest it is not growth factor dependent and may not participate in the same signaling pathways. [provided by RefSeq, Jan 2010]</p> <p>Transcript Variant: This variant (2) differs in the 5' UTR and 5' coding region, compared to variant 1. The encoded isoform (2) is the same length as isoform 1, but has a distinct N-terminus. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>