

## Product datasheet for **SC323492**

### 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><a href="#">pCMV6-XL4</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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## Fully Sequenced ORF:

>OriGene ORF sequence for NM\_014496 edited  
ATGCTACCATTCGCTCCTCAGGACGAGCCCTGGGACCGAGAAATGGAAGTGTTTCAGCGGC  
GGCGGCGCGAGCAGCGGCGAGGTAAATGGTCTTAAATGGTTGATGAGCCAATGGAAGAG  
GGAGAAGCAGATTCTTGTATGATGAAGGAGTTGTTAAAGAAATCCCTATTACTCATCAT  
GTTAAGGAAGGCTATGAGAAAGCAGATCCTGCACAGTTTGAGTTGCTCAAGGTTCTTGTT  
CAGGGGTCATTTGAAAAGGTTTTCTTGTAGAAAAGAAGACCGGTCCTGATGCTGGGCAG  
CTCTATGCAATGATGGTGTAAAAAAGCCTCTTAAAAAGTTTCGAGACAGAGTTCCGGACA  
AAGATGGAGAGGGATATACTGGTGAAGTAAATCATCCATTTATTGTCAAATTGCACTAT  
GCCTTTCAGACTGAAGGAACTGTACTTAATACTGGATTTTCTCAGGGAGGAGATGTT  
TTCACAAGATTATCCAAAGAGGTTCTGTTTACAGAGGAAGATGTGAAATTCACCTCGCA  
GAACTGGCCCTTGCTTTGGATCATCTGCACCAATTAGGAATTGTTTATAGAGACCTGAAG  
CCAGAAAACATTTTGCTTGATGAAATAGGACATATCAAATTAACAGATTTTGGACTCAGC  
AAGGAGTCAGTAGATCAAGAAAAGAAGGCTTACTATTTTGTGGTACAGTAGAGTATATG  
GCTCCTGAAGTAGTAAATAGGAGAGGCCATTCCCAGAGTGCTGATTGGTGGTCATATGGT  
GTTCTTATGTTTTGAAATGCTTACTGGTACTCTGCCATTTCAAGGTAAGACAGAAATGAG  
ACCATGAATATGATATTAAGCAAAAACCTTGAATGCCTCAATTTCTTAGTGCTGAAGCA  
CAAAGTCTTCAAGGATGTTATTTCAAAGGAATCCAGCAATAGATTGGGATCAGAAAGGA  
GTTGAAGAAATCAAAGACATCTGTTTTTTGCAAAATTTGACTGGGATAAATTATATAAA  
AGAGAAGTTCAACCTCCTTTCAAACCTGCTTCTGGAAAACAGATGATACTTTTTGTTTT  
GATCCTGAATTTACTGCAAAAACACCTAAAGATTTCTCCCGGTTTGCCAGCCAGTGCAAAAT  
GCTCATCAGCTCTTCAAAGGATTCAGCTTTGTTGCAACTTCTATTGCAGAAGAATATAAA  
ATCACTCCTATCACAAGTGCAAAATGTATTACCAATTGTTTCAGATAAATGGAATGCTGCA  
CAATTTGGTGAAGTATATGAATTGAAGGAGGATATTGGTGTGGCTCCTACTCTGTTTTGC  
AAGCGATGCATACATGCAACTACCAACATGGAATTTGCAGTGAAGATCATTGACAAAAGT  
AAGCGAGACCCTTCAGAAGAGATTGAAATATTGATGCGCTATGGACAACATCCCAACATT  
ATTACTTTGAAGGATGTCTTTGATGATGGTAGATATGTTTACCTTGTACGGATTTAATG  
AAAGGAGGAGAGTTACTTGACCGTATTCTCAAACAAAAATGTTTTCTCGGAACGGGAGGCT  
AGTGATACTATATGTAATAAGTAAGACAGTTGACTATCTTCATTGTCAAGGAGTTGTT  
CATCGTGATCTTAAACCTAGTAATTTTTATACATGGATGAATCAGCCAGTGCAGATTCA  
ATCAGGATATGTGATTTTGGGTTTGCAAAACAACCTTCGAGGAGAAAATGGACTTCTCTTA  
ACTCCATGCTACACTGCAAACTTTGTTGCACCTGAGGTTCTTATGCAACAGGGATATGAT  
GCTGCTTGTGATATCTGGAGTTTAGGAGTCCTTTTTTACACAATGTTGGCTGGCTACACT  
CCATTTGCTAATGGCCCAATGATACTCCTGAAGAGATACTGCTGCGTATAGGCAATGGA  
AAATTTCTTTGAGTGGTGGAACTGGGACAATATTTTCAGACGGAGCAAAGGATTTGCTT  
TCCCATATGCTTCATATGGACCCACATCAGCGGTATACTGCTGAACAAATATTAAGCAC  
TCATGGATAACTCACAGAGACCAGTTGCCAAATGATCAGCCAAAGAGAAAATGATGTGTCA  
CATGTTGTTAAGGGAGCAATGGTTGCAACATACTCTGCCCTGACTCACAAGACCTTTCAA  
CCAGTCCTAGAGCCTGTAGCTGTTCAAGCTTAGCCCAGCGACGGAGCATGAAAAAGCGA  
ACATCAACTGGCCTGTAA

<b>5' Read Nucleotide Sequence:</b>	>OriGene 5' read for mutant NM_014496 unedited ACTGCATCGAAACCGCAACGGCGGAGGCGCTACGGAGGGAGGTCTATATAAGCAGAGCTCGTTTAGTG AACCGTCAGAATCTTGTAAACGACTACTATAGGGCGGCCGGAATTCGGCACGAGGGCTCCGTGGAGT GGGCAGGTTTACCGAGGCGCTAGCAGGGGCTTTACTACTCTTCAGTCGCTCCCGAGCCAGCTCCAG CCTCTGAGAGACCCGGCGGCGGGCGGGCCAGTTCAATAGACAGGATGCGCGGCCGCGCCAGCGGT AGGCGGCAGCTCCTGTTTGTAGTCTCTGAAGGGGAGATGCTACCATTGCTCCTCAGGGACGAGCCCTG GGACCGAGAAAAATGGAAGTGTTACGCGGGGGCGGGCGGAGCAAGCGCGGAAGTAAATGTGTCT AAAAAATGTGTGAGATGGAGCCCATGTGGAAAAGGGAAAACAGAATCCCTGTGTATGGATGAAAGAGA TTGGGTTAAAGAAAATCCCTAATTAATTAATCATGTGTTAAGGGAAGGGCTAGGAAAAGCCCGATTCCCGG CACATTTTGATTTTGCTAAGGGTTTTGGTTCGGGGCACTTTTTGAAAGTTTTTTTTTTTGTAAAAAAA AAACCGGCCCGGACCCGGGGCCCTTTTGCCTGGGGGGGTTAAAAAAGCCCTTTTAAATTTTCG AACAAAATTCGCCACAGTTGGGAGGGGATTCCGGGGGGGATTAAAATCTCCTTTTTTTTCCAATTGG CCCTTCCCTCTCACAGAGAGGAGACAGTGCTTTTACCGGGTTTTTCCAGGGGGGGAAATTTTTTC CACATTTTCCAGAGGTGTTGTTTATAGAGGAGAGATATGTGATTTTCTCCGAACAGGGACCTTGCT TTGTTACTCCCTCAACTCAGACTATTCTCTAGTGACCACGCAGACGACGATTGTTGTGTGTAAT GAGCCCTTACGTCTTCTCTTTGTGCTTACGAG
<b>Kinase Domain Sequence:</b>	>SC323492 kinase domain raw sequence. By performing <a href="#">BLASTX</a> analysis with this sequence against NCBI reference protein database, you can confirm the presence of the kinase-deficient mutation AKWYYKMGCAATGGGCGGTAGGCGGTACGGTGGGAGGTCTATATAAGCAGAGCTCGTTTAGTGAACCG TCAGAATTTTGTAAACGACTACTATAGGGSGCCGGAATTCGGCACGAGGGCTCCGTGGAGTGGGCA GGTTTACCGAGGCGCTAGCAGGGGCTTTACTACTCTTCAGTCGCTCCCGAGCCAGCTCCAGCCTCT GAGAGACCCGGCGGCGGGCGGGCCAGTTCAATAGACAGGA
<b>Restriction Sites:</b>	Please inquire
<b>ACCN:</b>	NM_014496
<b>Insert Size:</b>	5300 bp
<b>OTI Disclaimer:</b>	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).
<b>OTI Annotation:</b>	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.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<a href="#">NM_014496.1</a> , <a href="#">NP_055311.1</a>

RefSeq Size:	2640 bp
RefSeq ORF:	2238 bp
Locus ID:	27330
UniProt ID:	<a href="#">Q9UK32</a>
Cytogenetics:	Xq21.1
Domains:	pkinese, 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>