

Product datasheet for **SC112980**

RSK3 (RPS6KA2) (NM_021135) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RSK3 (RPS6KA2) (NM_021135) Human Untagged Clone
Tag:	Tag Free
Symbol:	RSK3
Synonyms:	HU-2; MAPKAPK1C; p90-RSK3; p90RSK2; pp90RSK3; RSK; RSK3; S6K-alpha; S6K-alpha2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

Fully Sequenced ORF: >OriGene ORF sequence for NM_021135 edited
ATGGACCTGAGCATGAAGAAGTTCGCCGTGCGCAGGTTCTTCTGTGTACCTGCGCAGG
AAGTCGCGCTCCAAGAGCTCCAGCCTGAGCCGGCTCGAGGAAGAAGGTGTCGTGAAGGAG
ATAGACATCAGCCATCATGTGAAGGAGGCTTTGAGAAGGCAGATCCTTCCCAGTTTGAG
CTGCTGAAGGTTTTAGGACAAGGATCCTATGAAAAGGTGTTCTGGTGAGGAAGGTGAAG
GGGTCCGACGCTGGGCAGCTCTACGCCATGAAGGTCTTAAGAAAAGCCACCCTAAAAGTT
CGGGACCGAGTGAGATCGAAGATGGAGAGAGACATCTTGGCAGAAGTGAATCACCCCTTC
ATTGTGAAGCTTATTATGCCTTTCAGACGGAAGGAAAGCTCTACCTGATCCTGGACTTC
CTGCGGGGAGGGGACCTTTCACCCGGCTCTCAAAGAGGTCATGTTACGGAGGAGGAT
GTCAAGTTCTACCTGGCTGAGCTGGCCTTGGCTTAGACCATCTCCACAGCCTGGGGATC
ATCTACAGAGATCTGAAGCCTGAGAACATCCTCCTGGATGAAGAGGGGCACATTAAGATC
ACAGATTCGCGCTGAGTAAGGAGGCCATTGACCACGACAAGAGAGCGTACTCCTTCTGC
GGGACGATCGAGTACATGGCGCCGAGGTGGTGAACCGGCAGGACACACGCAGAGTGCC
GACTGGTGGTCTTCGGCGTGCTCATGTTTGAAGTGTACGCGGGTCCCTGCCGTTCCAG
GGGAAGGACAGGAAGGAGACCATGGCTCTCATCCTCAAAGCCAAGCTGGGGATGCCGAG
TTCTCAGTGGGAGGCACAGAGTTTGGTGCAGCTCTTCAAACGGAACCCCTGCAAC
CGGCTGGGTGCTGGCATTGACGGAGTGGAGGAAATTAAGCGCCATCCCTTCTTTGTGACC
ATAGACTGGAACACGCTGTACCGGAAGGAGATCAAGCCACCGTTCAAACAGCAGTGGGC
AGGCTGAGGACACCTTCCACTTTGACCCCGAGTTCACAGCGCGGACGCCACAGACTCT
CCTGGCGTCCCCCGAGTGCAAACGCTCATCACCTGTTTAGAGGATTCAGCTTTGTGGCC
TCAAGCCTGATCCAGGAGCCCTCACAGCAAGATCTGCACAAAGTCCCAGTTCACCCAATC
GTGCAGCAGTTACACGGGAACAACATCCACTTCACCGATGGCTACGAGATCAAGGAGGAC
ATCGGGTGGGCTCCTACTCAGTGTGCAAGCGATGTGTGCATAAAGCCACAGACCCGAG
TATGCCGTGAAGATCATTGATAAGAGCAAGAGAGACCCCTCGGAAGAGATTGAGATCCTC
CTGCGGTACGGCCAGCACCCGAACATCATCACCTCAAGGATGTCTATGATGATGGCAAG
TTTGTGTACCTGGTAATGGAGCTGATGCGTGGTGGGAGCTCCTGGACCGCATCCTCCGG
CAGAGATACTTCTCGGAGCGGAAGCCAGTGACGTCTGTGCACCATCACCAAGACCATG
GACTACCTCCATCCCAGGGGTTGTTTCATCGAGACCTGAAGCCGAGTAACATCCTGTAC
AGGGATGAGTCGGGGAGCCAGAATCCATCCGAGTCTGCGACTTCGGCTTTGCCAAGCAG
CTGCGCGCGGGGAACGGGCTGCTCATGACACCCTGCTACACGGCCAATTCGTGGCCCCG
GAGGTCCTGAAGCGTCAAGGCTATGATGCGGCGTGTGACATCTGGAGTTTGGGGATCCTG
TTGTACACCATGTGGCAGGATTTACCCCTTTTGCAAATGGGCCAGACGATACCCCTGAG
GAGATTCTGGCGCGGATCGGCAGTGGGAAGTATGCCCTTCTGGGGGAAACTGGGACTCG
ATATCTGACGCAGCTAAAGACGTCGTGTCCAAGATGCTCCACGTGGACCCTCATCAGCGC
CTGACGGCGATGCAAGTGTCAAACACCCGTGGTGGTCAACAGAGAGTACCTGTCCCCA
AACCAGCTCAGCCGACAGGACGTGCACCTGGTGAAGGGCGCGATGGCCGCCACCTACTTT
GCTCTAAACAGAACACCTCAGGCCCGCGGCTGGAGCCCGTGTGTCGTCCAACCTGGCT
CAGCGCAGAGGCATGAAGAGACTCACGTCCACGGGTTGTAG

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_021135 unedited
 TTCGAATTTTGTAAACGAACTCACTATAGGGCGGCCGGAATTCGCACGAGGGCCGGCG
 CGGCTGCCCTTTGTGACCGCAGCTCGCGCCCCACGCCCCGCGCCATGGCCGCCGTGCC
 GGGCTCCCTGGCCACGCGTGCCCGCCCGCGGACCTGAGCCCCGCGCTGGGATGCCGGGG
 ATGCGCGTCCCCCGGCCCTGCGGCTGCTCCGGGCTGGGCGCGGGGCGATGGACCTGAGCA
 TGAAGAAGTTCGCCGTGCGCAGGTTCTTCTGTGTACCTGCGCAGGAAGTTCGCGCTCCA
 AGAGCTCCAGCTGAGCCGGCTCGAGGAAGAAGGTGCTGTAAGGAGATAGACATCAGCC
 ATCATGTGAAGGAGGGCTTTGAGAAGGCAGATCCTTCCCAGTTTGAGCTGCTGAAGGTTT
 TAGGACAAGGATCCTATGGAAAGGTGTTCTGTTGAGGAAGGTGAAGGGTCCGACGCTG
 GGCAGCTCTACGCCATGAAGTCTTAAGAAAGCCACCCTAAAAGTTCGGGACCGAGTGA
 GATCGAAGATGGAGAGACATCTTGGCAGAAGTGAATCACCCCTTATTGTGAAGCTTC
 ATTATGCCTTTCAGACGGAAGGAAAGCTCTACCTGATCCTGGACTCCCTGCGNGAGGGG
 ACCTCTTACCCGGCTCTCAAAGAGGTCATGTTACGGCAGAGGATGTTGAGTTCTACC
 TGGCTGAGCTGGCCTTGGCTTTAGACATCTCCAGCCTGGGACATCTACAGAGATCTGA
 AGCCTGAGAACATCCTCCTGGATGGAGAGGGGCCATTTAGATCACAGATTTGCGCTGA
 GTAGGGAGGCATTGACCACGACAAGAGAGCGTACTCCTTCTGCGGGACGATCGAGACATG
 GCGCCGGAGGGGTGAACCCGCGGAGACCC

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_021135 unedited
 NAAAATCACGGTTAATAAGCTNCCTACGGATTCGGAACCTTTTTTTTTTTTATTGGTTC
 GAGAATCAAGGAGGGGACAAACCCACAAATAACATCTTCTTAGGGAAAACCTGGCTGTGG
 CCAGCGGGCACCTCCTGAAGCCCTGCTTGTGCTGACAGAGGCCCGCTCTTCAGTGATGCAGG
 GTGAGGGGCTGAGCTGGTCNCTTCCCATCTAGTCTGCTTGGGGGCGCCAGGGAGCATCT
 TCAACACCTTACAGGACAATGAAGGACCCGTGTGTTCCCTCTGCCGGCTGGACTGGGCG
 TCGATCCTGCTGCCCGAACCTCTCACTCGATTTACTCAATGAAGTAGAGCACAGCATG
 GCCTAAATGCCCCACACCCGCCCTGTGTGCACACCCAGGGGAATACGGATCAGTGTGAAA
 AAACAGATCTGTGCAACAGAGACACAAAACGCAACACAAAGCCACAGCATCTACAAAGTG
 CATCGCTCCTGTCCACGCTGATCTCCGCTGCCCTCCCACCTGTGCCTCTGCCCTCAGTC
 TGCTGGGTGGGGCCTGTGTCTCCCTCCAGCCTCCAGCTGGACTGAGAAGGTTTGGGTGGG
 AAGCCACAGAGCTCCATTTCTCCAATTCACAGTTTCTCCCCCAGCAGAAAAATGGAAGT
 GAACACAGCAAAAACACAGCTTTAGGTGAGCACACAGGAAGCCGACACAAGGCTGAACAG
 GTGCCAGAACCCACGACTTCTGCAAAGCCCCAATAGCTGTGTGCCACGGGACCTGGG
 ACAGACGGAGCCAGTGCCTTGGCCCCCGGAAACAGCCTGGAGGTGGCACAGGCCTC
 TCCGAGAGGCACCCCTTCTCCTGTTGACCCGGGGCTTCAGG

Restriction Sites:

NotI-NotI

ACCN:

NM_021135

Insert Size:

4310 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).

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:	NM_021135.4 , NP_066958.2
RefSeq Size:	5817 bp
RefSeq ORF:	2202 bp
Locus ID:	6196
UniProt ID:	Q15349
Cytogenetics:	6q27
Domains:	pkinase, S_TK_X, TyrKc, PDZ, 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 the RSK (ribosomal S6 kinase) family of serine/threonine kinases. This kinase contains two non-identical 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. Alternative splice variants, encoding different isoforms, have been characterized. [provided by RefSeq, Jan 2016]</p> <p>Transcript Variant: This variant (1) encodes isoform a. 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>