

Product datasheet for **SC118295**

RSK1 p90 (RPS6KA1) (NM_002953) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RSK1 p90 (RPS6KA1) (NM_002953) Human Untagged Clone
Tag:	Tag Free
Symbol:	RSK1 p90
Synonyms:	HU-1; MAPKAPK1; MAPKAPK1A; p90Rsk; RSK; RSK1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

>OriGene ORF sequence for NM_002953 edited
ATGCCGCTCGCCAGCTCAAGGAGCCCTGGCCGCTCATGGAGCTAGTGCCGCTGGACCCG
GAGAATGGACAGACCTCAGGGGAAGAAGCTGGACTTCAGCCGTCCTCAAGGATGAGGGCGTC
CTCAAGGAGATCTCCATCACGCACCACGTCAAGGCTGGCTCTGAGAAGGCTGATCCATCC
CATTTTCGAGCTCCTCAAGGTTCTGGGCCAGGGATCCTTTGGCAAAGTCTTCTGGTGCGG
AAAGTACCCCGCCTGACAGTGGGCACCTGTATGCTATGAAGGTGCTGAAGAAGGCAAC
CTGAAAAGTACGTACCCGCTCCGGACCAAGATGGAGAGAGACATCCTGGCTGATGTAAT
CACCCATTTCGTGGTGAAGCTGCACTATGCCTTCCAGACCAGGGCAAGCTCTATCTCATT
CTGGACTTCTGCGTGGTGGGGACCTCTTACCCGGCTCTCAAAAAGAGGTGATGTTACAG
GAGGAGGATGTGAAGTTTTACTGGCCGAGCTGGCTCTGGGCCTGGATCACCTGCACAGC
CTGGGTATCATTACAGAGACCTCAAGCCTGAGAACATCCTTCTGGATGAGGAGGGCCAC
ATCAAACACTGACTGTTTGGCCTGAGCAAAGAGGCCATTGACCACGAGAAGAAGGCTAT
TCTTTCTGCGGGACAGTGGAGTACATGGCCCTGAGGTCGTCAACCGCCAGGGCCACTCC
CATAGTGGGACTGGTGGTCTATGGGGTGTGATGTTTGAGATGCTGACGGGCTCCCTG
CCCTTCCAGGGGAAGGACCGGAAGGAGACCATGACACTGATTCTGAAGGCGAAGCTAGGC
ATGCCCCAGTTTCTGAGCACTGAAGCCAGAGCCTTTCGGGGCCCTGTTCAAGCGGAAT
CCTGCCAACCCGGCTCGGCTCCGGCCCTGATGGGGCAGAGGAAATCAAGCGGCATGTCTTC
TACTCCACCATTGACTGGAATAAGCTATACCGTCGTGAGATCAAGCCACCCTTCAAGCCA
GCAGTGGCTCAGCCTGATGACACCTTCTACTTTGACACCGAGTTCACGTCCCGCACACCC
AAGGATTTCCCAAGGATCCCCCCCCAGCGCTGGGGCCCATCAGCTGTTCCGGGGCTTACAG
TTCGTGGCCACCGCCTGATGGAAGACGACGGCAAGCCTCGTCCCCGCAGGCACCCCTG
CACTCGGTGGTACAGCAACTCCATGGGAAGAACCTGGTTTTTGTGACGGCTACGTGGTA
AAGGAGACAATTGGTGTGGCTCCTACTCTGAGTGCAAGCGCTGTGTCCACAAGGCCACC
AACATGGAGTATGCTGTCAAGGTATTGATAAGAGCAAGCGGGATCCTTTCAGAAGAGATT
GAGATTCTTCTGCGGTATGGCCAGCACCCCAACATCATCACTCTGAAAGATGTGTATGAT
GATGGCAAACACGTGTACCTGGTACAGAGCTGATGCGGGGTGGGGAGCTGCTGGACAAG
ATCCTGCGGCAGAAGTTCTTCTCAGAGCGGGAGGCCAGCTTTGCTCCTGCACACCATTGGC
AAAACACTGTGGAGTATCTGCACTCACAGGGGTTGTGCACAGGGACCTGAAGCCCAGCAAC
ATCCTGTATGTGGACGAGTCCGGGAATCCCGAGTGCCTGCGCATCTGTGACTTTGGTTTT
GCCAAACAGCTGCGGGCTGAGAATGGGCTCCTCATGACACCTTGCTACACAGCCAACTTT
GTGGCGCCTGAGGTGCTGAAGCGCCAGGGCTACGATGAAGGCTGCGACATCTGGAGCCTG
GGCATTCTGCTGTACACCATGCTGGCAGGATATACTCCATTTGCCAACGGTCCCAGTGAC
ACACCAGAGGAAATCCTAACCCGGATCGGCAGTGGGAAGTTTACCCTCAGTGGGGGAAAT
TGGAACACAGTTTCAGAGACAGCCAAGGACCTGGTGTCCAAGATGCTACACGTGGATCCC
CACCAGCGCTCACAGCTAAGCAGGTTCTGCAGCATCCATGGGTACCCAGAAAGACAAG
CTTCCCCAAAGCCAGCTGTCCCACCAGGACCTACAGCTTGTGAAGGGAGCCATGGCTGCC
ACGTACTCCGCACTCAACAGCTCCAAGCCACCCCCAGCTGAAGCCCATCGAGTCATCC
ATCCTGGCCCAGCGGCGAGTGAGGAAGTTGCCATCCACCACCCTGTGA

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_002953 unedited
 GGGGTGCATATATTTGTATACGACTCACTATAGGGCGGCCGCGCGAATGCTAGTGCCGC
 GGCGGGCGCGCGGACGGCCAGCCGAGCGCGAGGGGCTCGGGGGGCGCGCGGTTTCG
 GGTGCGAGAGCCAGGGACCCAGGACCCGGGAGGCGCGCAGCCGGGGCCGCGGAGGAG
 CGCGGGTGACCTGGCGGGCGGAGATGCCGCTCGCCAGCTCAAGGAGCCTGGCCGCTC
 ATGGAGCTAGTGCCGCTGACCCGGAGAATGGACAGACCTCAGGGGAAGAAGCTGGACTT
 CAGCCGTCGAAGGATGAGGGCGTCTCAAGGAGATCTCCATCACGCCACCAGTCAAGGCT
 GGCTCTGAGAAGGCTGATCCATCCATTTTCGAGCTCCTCAAGTTCTGGGCCAGGATCC
 TTTGGCAAAGTCTTCTGGTGCGGAAAGTCAACCGGCCTGACAGTGGGCACCTGTATGCT
 ATGAAGGTGCTGAAGAAGGCAACGCTGAAAGTACGTGACCGCGTCCGGACCAAGATGGAG
 AGAGACATCCTGGCTGATGTAATCACCCATTCGTGGTGAAGCTGCACTATGCCTTCCAG
 ACCGAGGGCAAGCTCTATCTCATTCTGGACTTCTGCGTGGTGGGACCTCTTACCCGG
 CTCTCAAAGAGGTGATGTTACGGAGGAGGATGTGAAGTTTTACCTGGCCGAGCTGGCT
 CTGGCCCTGGATCACCTGCACAGCCTGGGTATCATTTACAGAGACCTCAAGCCCTGAGAC
 ATCCTTCTGGATTGAGGAGGCCACATCAAACCTACTGACTTTGGCCTGAGCAAAGAGCCA
 TTGACCACGAGAGAGGCCTATTCTTCTGCGGGACAGTGAAGTACATGCCCCCTGAGG

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_002953 unedited
 ACCGCGGGCCGAATTTAGNATCGAGTTTTTTTTTTTTTTTTTAACTCAACAGTTTAT
 TAAAAAGGCCATGGACAGATGAACCCTGAGTAACCAGCTGAGGAAAAAATGAAAAAGAC
 CCTGTCCCTCATGGCCCGCCACTGGCCCTCTGTGAACCTGTCTGTTGCCAACCCAG
 ATGAAGTCAGCAAAAAAGTGCTTTCCACATCCTTTCTCTGGGGCTGCCAGCCTGACCGC
 AGGGGATCCACTGGCAAAGCCAAGGTGGATGCTGGTGCCTGAAGCTGGAAGCCAGCAGGA
 CATGAGACCCCTCTGTAGCAGGAAGTGGTTCTAGAACTCCCAGCAGAACAGAACGGAAA
 AGGAGCTGACTGGGGATAGAATGAGTTCTGCTAAACAGCCAAATGCTTTGAGAGAGGTGA
 CACTGGACTGTCTCGGAGGTGTGTGCAAATGGCTACAGGTGGCCAATCATGGGGTCCCC
 AGGGTGGGATCCCAAAGCTGCTCAAAGAGTCTCAAAGAGCCCCAGCGTGACTCAGTTCC
 CCTCCCTGGGCCGAAATGGCTGTTTCTGCTCCCAGACGGCAAATGGATCTGTAAAAATC
 CATGGTGGTTGATGCCATTTTTTTCATAAAAAATAGTTATACAGTGAATCGCTTTCACCA
 GCAGAGCCTGAGCCGATAAAGATCCATCCTGGGCGAGGAAAAGGCACTTCTACCCCCC
 TCATTAGGGGTGTTTCTGGGGTTGGCAGCCTTCCCGGCCCTCGGTTACAGCTCCCTCT
 GGCTTGTGTTCCCGGCTGCTCCCTTTGGAAGCATGTTGACTTTGTAAGCTAACACCCCC
 GTGTGGCCCAAAGTCTTGGGGCCCCACAGGCGGCGGAAGGAAACTTCTACTCGCCGCTG
 GGCCAGAAGGATGACTCGATGGCTTCAATCGAGGGGCGGCCTGAACTTCCAC

Restriction Sites:

NotI-NotI

ACCN:

NM_002953

Insert Size:

3670 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_002953.3 , NP_002944.2
RefSeq Size:	3199 bp
RefSeq ORF:	2208 bp
Locus ID:	6195
UniProt ID:	Q15418
Cytogenetics:	1p36.11
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 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 (1) represents the longest transcript and encodes isoform a.</p>