

Product datasheet for **SC102087**

RPS6KA3 (AK096084) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RPS6KA3 (AK096084) Human Untagged Clone
Tag:	Tag Free
Symbol:	RPS6KA3
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

Fully Sequenced ORF: >NCBI ORF sequence for AK096084, the custom clone sequence may differ by one or more nucleotides

```
CAAATTAGCCAGGTGTGGTGGCTGGCACCTGTGTTCCAACACTTGGGAGACTCATGTGACAGGAAGATC
ACTTGAGCCCAGGAGTTAGAAGCTGCAGTGAGCCGTGATCTTGCCACTGCACTCCAGTCTGGGCAACACA
GCAAGATACTGTGTCAAAAAATTTTTTTTGTAAAAAATAAAGAGTTACATGACATTCAGAGACCATC
CAAAAAACCTGTGGGTGCCCGGCTGGGCTCAGTGGCTCATGCCTGTAATCCCAGCACTTTGGGAGGCCAA
AGTGGGTGGATCACTTGAGGTGAGGAGTTTGGAGCCAGCCTGGACAACATGGTGAACCCCATCTCTACT
GAAAATAGAAAAATTAGCCAGGCATGGTGGTGGATGCCTGTAATCGCAGCTACTCGGGAGAGGGCGCTG
GAGAATCACTTGAATCATGGTGCAGGTTGCAGGGAGCCAAGATGGCACCATTGTGCTCCAGCCTGGG
CAACAAGAGCAAACTCCATCTCAAAAAAATAAAGAACCTGCGAGTGAGTTCCACACGTTTTCTAAT
GGGCTGCTGCTTCTAGGAGTCTCGCTCATAGAAAAGGCACAACTGAAAGAGGAAGCAGATCCCAT
TGCTGTGGAAGTCCCATTGTTAGGAAGCTCTGCTTTTCTGGAGTCAAATTCGCATTCATGACGCTTTAA
ACCGTCAGAGCTGGTGGTCTCTACAACAAAATAGTTTGGTCTCTCTCTCTAGTTAACAGGCTTTC
AAATATTAAGAAGATCAATGTTCTGACCCATTAATAATTTCTTTTGTGGAATGAAAAGCTGATTTAA
CCCATCTCAAGGCTGGTTTGTGGAGGAATAGGGGCTGAGTCACCTGCATTTCCCTCCCTGCACAAAG
TCCTGGGCCAGATCTGGGGTCTGTCTCTGCTGAGGGTGGGGTGAACCAGGAAGCACCTCCTTCTCATC
TCCTTGATGAATGGGTATAATGGTTGCCATGGAAGTGGGGCTGTTTGTGACCTGGGGCTGGTGGGCC
TCTGAGAGCCTTATAGCTGATTGCCTTTTGGGAGAGGGGAGGTGGGAGCCCCACCTGTCTCATGAGTC
ACCCAAAGGTGCATGGGAGGCAGGTGCTGGGAATCGGCTACTCCCCAGAGCTTGGCGTGGCCATCCC
TGTGGCCCCTCTGGGAGTCTGGAGCCCATTCCCTCACGCTGGTACTCACTGCAGCTGGGACATCTGCAC
TAGGAAGACAGGACACGGCATGGAAGCTGGCCTCTGCCAGAAGCCATGACATTTGGTCAACAGCCTGA
TGCTATAAACGAGTGTACGGCCGGGCATGGTGGTTCACACCTGTAATCCCAGCACTTTAGGAGGCCAA
GGCGGGTGGATCATGAGTCTGGAGTTCGAGACCAGCCTGGCCAACATGGCGAAATCCCCTCTCTACTAA
AAATAAGAACATTAGCCAGGTGTGGTGGCACATACCTGTAGTCCCAGCTCCTCTGGAGGCTGAGGCAGGA
GAATCACTTAAACCCAGGAGGCGGAGATTGCAAGTGGAGCCAGACCAGGCATTGGACTCCAGGCTGGGCA
ACAGAGCACGACTCCATCTCAAAAAACAACAAAAAAGAGTGTACCTGGGGCTACTTGGCCAGACAC
AGAGAGCAAGGAGACATCCCTATTATCTGTCAAAAAATAATTGTTGGGGCTGAGCACAGTGGCTCATGCCT
GTAATCTCAGCACTTTGGGAGGTCGGGGCAGGAGGACTTGAGGCCTAGAGTTTGGAGCCAGCCTGGGCAA
CATAGCGAGCACCCCATCTCCAGAAAAATTTAAAAATTGGCTGGGCGCAGTGGCTCATGCCTGTGATCC
CAGCACTTTGGGAGGCCGAGGGGATGGATCATTGAGGTGAGGAGTTTGGAGCCAGCCTGGCCAACATG
GTGAAGCCCCATCTCTACTAAAAATACAAGATTGGCCGGGCATGGTGGTGGGCACCTGTGGTCTAGCT
ACTTGGGAGGCTGAGGCAGGAGAATCGCTTGAACCCAGGAGGCGGTGGTGTAGTGAGCTAGGATCATGC
CATTGCAGTCCAGCCTGGACAGCAAGCTAGACTCCATCTCAAAAAAAGAAAAGAAAAGTAAAAAA
TTTTAAAAATTAGATGGGCATGGTGCATGTGCCTGTAGTCCCAGGTAAGGAGGCTGAGGTAGGAGGA
TGACTTGAGCCTAGGAGTTCGAGGCTGCAGTGAGCTCTGATCGCACCCTGCACTCCAGCCTGAGTGACA
CAGCGAGACCCTGCTTC
```

5' Read Nucleotide Sequence:	>OriGene 5' read for AK096084 unedited TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGGTGGTGGCTGGCA CCTGTGTTCCAACACTACTTGGGAGACTCATGTGACAGGAAGATCACTTGAGCCCAGGAGTT AGAAGCTGCAGTGAGCCGTGATCTTGCCACTGCACTCCAGTCTGGGCAACACAGCAAGAT ACTGTGTCAAAAAAATTTTTTGATAAAAAATAAAAGAGTTACATGACATTCAGAGACC ATCCAAAAACCTGTGGGTTCCCGGCTGGGCTCAGTGGCTCATGCCTGTAATCCCAGCAC TTTGGGAGGCCAAAGTGGGTGGATCACTTGAGGTCAGGAGTTTGAGACCAGCCTGGACAA CATGGTGAACCCCATCTCTACTAAAAATAGAAAAAATTAGCCAGGCATGGTGGTGGATG CCTGTAATCGCAGCTACTCAGGAGAGGGCGCTGGAGAATCACTTGAACCTCATGGTGGCGCA GGTTGCAGGGAGCCAAGATGGCACCATTGTGCTCCAGCCTGNGCAACAAGAGCAAAACTC CATCTCAAAAAAATAAAGAACCTGCGAGTGAGTTCCACACGTTTTCTAATGGGCTGC TGCTTTCCTAGGAGTCTCTCGCTCATAGAAAAGGCACAACTGAAAGAGGAAGCAGATCC CATTGCTGTGGAAGTCCCATTGTTAGGAAGCTCTGCTTTTCTGGAGTTCAAATTCGCATT CATGACGCTNTANACCGTCAGAGCTGGGTGGGCTCTNCTACACAAAATAGTTTGCTCTC TCTCTNCTAGTAACANNGCTTTCAAATATTAGAAAGATCATGNTNCTGACCCCATNAA AATTCTCTTTTGTGGAATGAAAGCTCTGATTTAACCATC
Restriction Sites:	NotI-NotI
ACCN:	AK096084
Insert Size:	2250 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:	AK096084.1
RefSeq Size:	2327 bp
RefSeq ORF:	2327 bp
Locus ID:	6197
Cytogenetics:	Xp22.12
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:

This gene encodes a member of the RSK (ribosomal S6 kinase) family of serine/threonine kinases. This kinase contains 2 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. Mutations in this gene have been associated with Coffin-Lowry syndrome (CLS). [provided by RefSeq, Jul 2008]