

Product datasheet for **SC102983**

RPS6KA3 (AK095738) Human Untagged Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | RPS6KA3 (AK095738) Human Untagged Clone |
| Tag: | Tag Free |
| Symbol: | RPS6KA3 |
| Mammalian Cell Selection: | None |
| Vector: | <u>pCMV6-XL5</u> |
| E. coli Selection: | Ampicillin (100 ug/mL) |
| Fully Sequenced ORF: | <p>>OriGene sequence for AK095738 edited</p> <pre> GAATTCGGCACGAGGGCAAGACAAGCATCCAGTTTTTTTTCTGTAATGCAGTGACAGTGTG GAATGACCACTCAGCCATTATAAATTTGTGTACTTAGGGCCCTTGCTCACCCAATATC TCTATAAACTGCTGCAGTAGCTTATTTGTACAAGACACTTGTGAAAATCAGTTTTCTTAC ATTATAGTCATTGTCACATATGGAAGTTGGTCTTTGATTCCAAAAGTAAAGGGAATATGT TTCTACATTAACAGGAATATGGAGAAATCTGTAACGTTTGAATTATCTTTGAAAGAATGG CTAAATGATAAATGTTAAGTCTGTGCCTATATGGAGAGGACTCTGTACCAGCATGAGTT AATTTAAGTGGATTCAGTCTATTCAGTTCATAGCACATTAGTGACTAGGAATGTGTGTT CAGCCTCCTGAGAGAGGAGGGGAGGAAGCTTGATACTGGGTGGAAACAACCTTTGACATC TGTTTCCTTGTTGTCAAAGAACGAATTTGTATCAAATAGATCTGTTTTGAGCTTTGGCC ATTATTTGGCTAAGAACCTCAGCCATCTCATCTCAGACAAATGGACAGCCTCTTTGATA CATTTTCTAGTAGTCAAATGGGGCAGATGTAGTTTAATATGGGTGGAAAACCTGCCCCAG CAAGATACCAGGTTATTTACTGTGGTATCGAAAGCTCTAAGAGAATGGAAGTGGTCTTT TGCCCGGCTGAAATAGCAGTGGGAAGACAAGTCTATCCAGACCAAGCCTGTCCATACAA CACTGGCAATCAGTTGATGAGGGAATTAAGTCAGATGGGAGACGGCTTTTTTTXXXXXX XXXXXXXXXXTCATATTGTTAGCCAAACGCTGATTAATGCAAATTTCAAACAAAAA AACTCGAC </pre> |



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| 5' Read Nucleotide Sequence: | <p>>OriGene 5' read for AK095738 unedited</p> <pre>TCAAAATTTGTAATACGACTCACTATAGGGCGGCCGNAATTCGCACGAGGGCAAGACA AGCATCCAGTTTTTTTTCTGTAATGCAGTGACAGTGTGGAATGACCACTCAGCCATTATAA ATTTGTGTAAGGACCTTGTCTCACCAACTATCTCTATAAACTGCTGCAGTAGCTT ATTTGTACAAGACACTTGTGAAAATCAGTTTTCTTACATTATAGTCATTGTCACATATGG AAGTTGGTCTTTGATTCCAAAAGTAAAGGAATATGTTTCTACATTAACAGGAATATGGA GAAATCTGTAACGTTTGAATTATCTTTGAAAGAATGGCTAAATGATAAAATGTTAAGTCTT GTGCTATATGGAGAGGACTCTGTACCAGCATGAGTTAATTTAAGTGGATTCACTGCTAT TCAGTTTATAGCACATTAGTGACTAGGAATGTGTGTTTCAGCCTCCTGAGAGAGGAGGGA GGAAGCTTGATACTGGGTGGAACAACCTTTGACATCTGTTTCTTGTGTCAAAGAAC GAATTTGTATCAAATAGATCTGTTTTGAGCTTTGGCCATTATTTGGCTAAGAAGTTCAGC CATCTCATCTCAGACAAATGGACAGCCTCTTTGATACATTTTCTAGTAGTCAAATGGG GCAGATGTAGTTAATATGGGTGGAAGTGGCCAGCAAGATACCAGGTTATTTACTGT GGTATCGAAAGCTCTAAGAAATGGAAGTGGTCTTTTGGCCGGCTGGAATAGCAGTGGG AAGACAAGTCTATCCAGACCAAGCCTGTCCATACAACACTGGGCATCAGTTGATGAGGGA ATTAAGTCAGATGGGAGAACGGCTTTNTTTTTTTTTTTTTTTGAGNTGGAGTCTCATCTGTC CCCAGNNTGAGTGCANTGGTGGNGACTCAGCTACTGCAACCTCACTTCAGGTCAGCATNT CTCTGCTCAGCTTANACTGGGT</pre> |
| 3' Read Nucleotide Sequence: | <p>>OriGene 3' read for AK095738 unedited</p> <pre>GGTCTATCTATGNACCGCGGCCGCAATCTAGGATCGAGTTTTTTTTTTTTTTTTTTTTTTT TTTTTTTTTTTTTTTTTTTTTAGTTTGAAGAGGGGGATTTAATCAGCGTTTGGCTAACA ATATGAGATAAACTATTAAGAAGTGGAGGGCATTCTGGCAAATAAAAAGTTCCTCATT TCACACTTAAAAAGCTGCCACGAAAAGCTTATTCTTGGAGTATAAAATGCAAAATTTAGG TTAAACCGCGGGGGGAGATGAAATTGGACCCTGGCAATTTCTTATGGGTCAACCTAA TAGTAAAACATTTATAACAATTGGATCATTACAATACCTTTAGACATCGTTTTTCTGCT AAACTCAGTATTTTCTTCCATCCTGATCAAAGAAACATTATTGCAGTAAGCCACATTA TAATTCAGCACGATTTCTTCTAAAAGGCTCCGAGTTCCTTTGAGCTTGTATTGTACAG TGGATTTTTCATTTGCAAAGACGTTAAGCCCTCCAATGTGCAAATCATGAAGTCAGTTG TTGTTCCAGCAAGGGTTGCCAGCGGTAAAAACAAGATAAACTAATGCACTAGCTGAAA CCAGGTGGGAGACCATGTGTGTAATGCTTGGGGGTGGAAGGAAAAGTATTTCTGAATG AGGACTTAAAGTTAATACCAGCTTCACTGGCTGGTCACATGAGAAACCCAAAGCTCCATT TTAACTGCAGCATTAGGAGGTTCACAACTGGCAACCCAAAGTAAATCCCAAAGTAAAG GTTCTAAAAGGGTAGGATCAAACCAAAAATTCGGGAGGGATCTCAGTAACTTTCAAATG GCCGACCCCGAATTCCTTTAAAAATTAGGCCAATTTTTAACCTCTTCTAGGGG ATTGGCTTTTTGG</pre> |
| Restriction Sites: | NotI-NotI |
| ACCN: | AK095738 |
| Insert Size: | 2750 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:

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: [AK095738.1](#)

RefSeq Size: 2410 bp

RefSeq ORF: 2410 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]