

Product datasheet for **SC301127**

MSK2 / RSK-B (RPS6KA4) (NM_001006944) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: MSK2 / RSK-B (RPS6KA4) (NM_001006944) Human Untagged Clone
Tag: Tag Free
Symbol: MSK2 / RSK-B
Synonyms: MSK2; RSK-B; S6K-alpha-4
Mammalian Cell Selection: None
Vector: pCMV6-XL6
E. coli Selection: Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene ORF sequence for NM_001006944 edited
 GCCGCCCGGAGCCCGAGCCGCGCGGGCCCCAGCGACCCGCCCATGGGGGACGAGGAC
 GACGATGAGAGCTGCGCGTGGAGCTGCGGATCACAGAAGCCAACCTGACCGGGCAGAG
 GAGAAGGTGAGCGTGGAGAACTTCGAGCTGCTCAAGGTGCTGGGCACGGGAGCCTACGGC
 AAGGTGTTCTGGTGCAGGAGCGGGCAGCAGCGGGGAAGCTGTACGCCATGAAG
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 CGCTCGGTGCTGGAGCTGGTGCAGCCAGCGCCCTTCTGGTACGCTGCACTACGCTTTC
 CAGACGGATGCCAAGCTGCACCTCATCTGGACTATGTGAGCGGGGGAGATGTTACC
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 GTGCTGGCCCTGGAACACCTGCACAAGCTCGGCATCATTACCGAGACCTGAAACTGGAG
 AATGTGCTGCTGGACTCCGAGGGCCACATTGTCCTCACGACTTCGGGCTGAGCAAGGAG
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 GTGCATCAGACAGCTGCACACGTACCTGGTCTGGAGCTGCTGCGGGGCGGGGAGCTG
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GCATCCATGGTACTGCCTCAGCCAGCCAGGCTGTGCCTTTGACTTTAAATAAAAGTC
CACCCAGTGTGAAAAAAAAAAAAAAAAAAAA

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- Restriction Sites:** Please inquire
- ACCN:** NM_001006944
- Insert Size:** 3100 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).
- OTI Annotation:** The ORF of this clone has been fully sequenced and found to be a perfect match to NM_001006944.1.
- 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:** [NM_001006944.1](#), [NP_001006945.1](#)

RefSeq Size:	3131 bp
RefSeq ORF:	2301 bp
Locus ID:	8986
UniProt ID:	O75676
Cytogenetics:	11q13.1
Protein Families:	Druggable Genome, Protein Kinase, Transcription Factors
Protein Pathways:	MAPK signaling pathway, Neurotrophin signaling pathway
Gene Summary:	<p>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 CREB1 and ATF1. The encoded protein can also phosphorylate histone H3 to regulate certain inflammatory genes. Several transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jan 2016]</p> <p>Transcript Variant: This variant (2) uses an alternate in-frame splice site in the coding region, compared to variant 1, resulting in a shorter protein (isoform b).</p>