

Product datasheet for **SC117648**

MSK2 / RSK-B (RPS6KA4) (NM_003942) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MSK2 / RSK-B (RPS6KA4) (NM_003942) Human Untagged Clone
Tag:	Tag Free
Symbol:	MSK2 / RSK-B
Synonyms:	MSK2; RSK-B; S6K-alpha-4
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL6</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

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>OriGene ORF sequence for NM_003942 edited
ATGGGGGACGAGGACGACGATGAGAGCTGCGCCGTGGAGCTGCGGATCACAGAAGCCAAC
CTGACCGGGCAGGAGGAGAAGGTGAGCGTGGAGAACTTCGAGCTGCTCAAGGTGCTGGGC
ACGGGAGCCTACGGCAAGGTGTTCTGTTGCGGAAGGCGGGCGGGCAGCAGCGGGGAAG
CTGTACGCCATGAAGGTGCTGCGCAAGGCGGCGCTGGTGCAGCGCCAAAGACGCAAGAG
CACACGCGCACCAGCGCTCGGTGCTGGAGCTGGTGCAGCGCCAGGCCCTTCTGTTGTCAGC
CTGCACACGCTTTCCAGACGGATGCCAAGCTGCACCTCATCTGGACTATGTGAGCGGC
GGGGAGATGTTACCCACCTCTACCAGCGCCAGTACTTCAAGGAGGCTGAGGTGCGCGTG
TATGGGGGTGAGATCGTCTGGCCCTGGAACACCTGCACAAGCTCGGCATCATTACCGA
GACCTGAAACTGGAGAATGTGCTGCTGGACTCCGAGGGCCACATTGCTCTCACGGACTTC
GGGCTGAGCAAGGAGTTCCTGACGGAGGAGAAAGAGCGGACCTTCTCTTCTGTGGCACC
ATCGAGTACATGGCCCCGAAATCATCCGTAGCAAGACGGGGCATGGCAAGGCTGTGGAC
TGGTGGAGCTGGGCATTTGCTCTTCGAGCTGCTGACGGGGCCTCGCCCTTACCCTG
GAGGGCGAGGGAACACGACGGCTGAGGTGTCTCGACGGATCCTGAAGTGTCCCCTCCC
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CCTAAGAAGCGATTGGGCGCGGGGCCAGGGGGCACAAGAAGTCCGGAACCATCCCTTC
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GCGCCTGGTGTGAGACCGCCAGGTGGGCAGCGGTGGCCAGGAGCGCTATGATGCAG
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CTGGCGCAGCAGGGCTACGACGAGTCTGCGACCTCTGGAGCCTGGGCGTCATTCTGTAC
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CAGGGTGTATCCGAGGAAGCCAAGGAGCTGGTCCGAGGGCTCCTGACCGTGGACCCCGCC
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TCCTCGCCCCGCTCCGGACGCCGACGTGCTCGAGTCTCTGGGCCCGCAGTGCCTCG
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AGCGTGGAGAATGCACCCCTGGCCAAGCGGGGAAGCAGAAGCTCGGGAGCGCCACCGCC
TCCCGCCGGGGCTCCCCTGACACAGCCAACCCGGGCCGAGCCCCGTCGCTCCAAGGG
GCCCCCCCGGAGCCAACGGCCCCCTGCCCCCTCCTAA
    
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_003942 unedited
 ATGCGCGCCCGTTGCCGCTATGGGCGGTAGGCGGTACGGTGGGAGGTCTATATAAGCA
 GAGCTCATTTAGGTGACACTATAGAATACAAGCTACTTGTCTTTTTGCAGCGGCCGCGA
 ATTCGGCACGAGGGCCGCCCGGAGCCCGAGCCGCGGGCCCCAGCGACCCGCCGCCAT
 GGGGGACGAGGACGACGATGAGAGCTGCGCCGTGAGCTGCGGATCACAGAAGCCAACCT
 GACCGGGCACGAGGAGAAGGTGAGCGTGGAGAATTGAGCTGCTCAAGGTGCTGGGCAC
 GGGAGCTACGGCAAGGTGTTCTGGTGCGAAGGCGGGCGGGCACGACGCGGGGAAGCT
 GTACGCCATGAAGGTGCTGCGCAAGGCGGCGCTGGTGCAGCGCGCAAGACGCAAGAGCA
 CACGCGCACCGAGCGCTCGGTGCTGGAGCTGGTGCGCCAGGCGCCCTTCCTGGTACGCT
 GCACTACGCTTTCCAGACGGATGCCAAGCTGCACCTCATCCTGGACTATGTGAGCGGCGG
 NGAGATGTTACCCACCTCTACCAGCGCCAGTACTTCAAGGAGGCTGANGTGCGGTGTA
 TGGNGGTGAGATCGTGTGGCCCTGGAACACCTGCACAAGCTCGGCATCATTTACCGAGA
 CCCTGAACTGGAGAATGTGCTGTGGACTCCGAGGGCCACATTGCTCACGGACTTCGG
 GCTGAGCAAGGAGTTCCTGACGGAAGAGAAAGAGCGACCTTCTCCTTCTGTGGCACAATCG
 AGTACTGGGCCCCGAAATCATCCGTANCAAGACGGGGCATGGCAAGGCTGTGGACTGGT
 GGAACCTGGGCATCTTGCTCTTACAGCTGCTGACGGGGGCTTCGCCCTCACCTGAAGG
 GCGAGAGGACACCCAGCTGAGGTGTTTCGACGGATACCGAAATGCCTCCCTCCCTTCC
 CN

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_003942 unedited
 NNAAAATCAGCTTGNACCGCGCCGATNCTANGATCGAGTTTTTTTTTTTTTTTTTTTC
 AGCACTGGGTGGACTTTTTATTTTAAAGTCAAAGGCACAGCCTGGCTGGGCTGAGGCAGTG
 ACCATGGATGCCAGCCAGACCCCAAGGCCCAACCCAGCCAGGAGTAGCTGTGCCA
 AAGAGGAAGGGTGGGTGAGAAGATGGCCTCCTCTTTTAGGAGCCACCTATCTCCTTCT
 TAGCCCCAACAGGGGAGAAGCAGATGACATAAAGTGAGGCAGAAATGCTTCAAGGGTCC
 CCCAGGGCCTCTCCTTACAGTACCCCAACACGGGTCTTTGGTGGACGTAATTGCACAGAC
 AGTCCATAAAAGTACAGTTGAGGGGTGCCCTCCAGGAACGGGGCTCAGGGGAGAACA
 GGGTAGGGGTCCCAGTTTAGGAGTTAGCACTCCTAACTCAGTGCTTAGAAGTGGGGGAG
 GGGCTCTTCTGTTGGAGCAGTCCCCCTGGAGGGGCTTCTGCCAGAAGAGGCAGTGT
 CCTGGGAGAGGGCCCCCAACCCCACTCCCCAGCAGGGCCCCCTTCCCTGCAACTCTA
 TCTGGTAAGACATAAAAAATTCTGCTTATAAAAATACTTCTGCTCTGTCTGGGAGTGG
 GGTGGGGTAAAGGAAAAAGAAAAGGACANNTCCCTTTGGGGATCAGGTTGAGCCGAGG
 CCAAAGGCCTCCGGGATTGAGCCGGGGCTCCAGGTCACAGCCCTTATGAGGGAAAGG
 GGTACAGTGGTGGGATTAGGAGGGGGGCCAGGGGCACACTCTCCACACAGGGAGGA
 CCATATGGTGGCACAAGGGNGCGCGCGGGATGACGTGCGGCTAGCCACCCCGCGG

Restriction Sites:

NotI-NotI

ACCN:

NM_003942

Insert Size:

3300 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_003942.2 , NP_003933.1
RefSeq Size:	3149 bp
RefSeq ORF:	2319 bp
Locus ID:	8986
UniProt ID:	O75676
Cytogenetics:	11q13.1
Domains:	pkinase, S_TK_X
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 (1) represents the longest transcript and encodes the longest isoform (a).</p>