

## Product datasheet for SC206470

## MSK1 (RPS6KA5) (NM\_182398) Human 3' UTR Clone

## **Product data:**

## OriGene Technologies, Inc.

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Product Type:	3' UTR Clones
Product Name:	MSK1 (RPS6KA5) (NM_182398) Human 3' UTR Clone
Symbol:	MSK1
Synonyms:	MSK1; MSPK1; RLPK
Mammalian Cell Selection:	Neomycin
Vector:	pMirTarget (PS100062)
ACCN:	NM_182398
Insert Size:	471 bp
Insert Sequence:	>SC206470 3'UTR clone of NM_182398 The sequence shown below is from the reference sequence of NM_182398. The complete sequence of this clone may contain minor differences, such as SNPs. Blue=Stop Codon Red=Cloning site
	GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAGGCCAAGAAGGGCGGAAAGATCGCCGTG TAACAATTGGCAGAGCTCAGAATTCAA <mark>GCGATCGCC</mark> GTGCACAGGGATCTGAAACCTGAGGTATAAAATCACTGGATCTCTTACGTAATTCAGTCTAGCACCATT ATTAAAGATCTCCCCAAACATGGGGGAAGTTTCTGGGGAGGTTTCCTTATTTTTTACTTTTCAAGGCTG TTAAATAGATAATTGAAAATACGTTTCTTTGATGTTTTTTCTTTTATATTTCAGTCTAAAATAAAT
<b>Restriction Sites:</b>	Sgfl-Mlul
OTI Disclaimer:	Our molecular clone sequence data has been matched to the sequence identifier above as a point of reference. Note that the complete sequence of this clone is largely the same as the reference sequence but may contain minor differences , e.g., single nucleotide polymorphisms (SNPs).
Components:	The cDNA clone is shipped in a 2-D bar-coded Matrix tube as 10 ug dried plasmid DNA. The package also includes 100 pmols of both the corresponding 5' and 3' vector primers in separate vials.



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	MSK1 (RPS6KA5) (NM_182398) Human 3' UTR Clone – SC206470
RefSeq:	<u>NM 182398.3</u>
Summary:	Serine/threonine-protein kinase that is required for the mitogen or stress-induced phosphorylation of the transcription factors CREB1 and ATF1 and for the regulation of the transcription factors RELA, STAT3 and ETV1/ER81, and that contributes to gene activation by histone phosphorylation and functions in the regulation of inflammatory genes (PubMed:11909979, PubMed:12569367, PubMed:12763138, PubMed:987510, PubMed:18511904, PubMed:9873047), Phosphorylates CREB1 and ATF1 in response to mitogenic or stress stimuli such as UV-C irradiation, epidermal growth factor (EGF) and anisomycin (PubMed:11909979, PubMed:9873047), Plays an essential role in the control of RELA transcriptional activity in response to TNF and upon glucocorticoid, associates in the cytoplasm with the glucocorticoid receptor NR3C1 and contributes to RELA inhibition and repression of inflammatory gene expression (PubMed:12628924, PubMed:18511904). In skeletal myoblasts is required for phosphorylation of RELA at 'Ser-276' during oxidative stress (PubMed:12628924). In erythropoietin-stimulated cells, is necessary for the 'Ser-727' phosphorylation of STAT3 and regulation of its transcriptional activation of 'Ser-126' and thereby regulates its ability to stimulate transcription, which may be important during development and breast tumor formation (PubMed:1260367). Directly represses transcription via phosphorylation of 'Ser-11' of histone H2A (PubMed:15010469). Phosphorylates 'Ser-10' of histone H3 in response to mitogenics, stress stimuli and EGF, which results in the transcriptional activation of several immediate early genes, including proto-oncogenes c-fos/FOS and c-jun/JUN (PubMed:12773393). May also phosphorylate 'Ser-28' of histone H3 (PubMed:12773393). Mediates the mitogen- and stress-induced phosphorylation of the production of pro-inflammatory cytokines (By similarity). Functions probably by inducing transcription of the MAP kinase phosphatase DUSP1 and the anti-inflammatory cytokine interleukin 10 (IL10), via CREB1 and ATF1 (transcription fa
Locus ID:	9252
MW:	19

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