OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for MC200919

Rps6ka4 (NM_019924) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rps6ka4 (NM_019924) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Rps6ka4
Synonyms:	90kDa; 1110069D02Rik; AI848992; mMSK2; Msk2
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)

View online »

Fully Sequenced ORF:

>BC012964 sequence for NM_019924
CCACGCGTCCGCACCCGCCCCGGCCGGAGCCGCCATGTAACCGGCGCCGCCCGTAGCCCCAGCCGCGCGG
GCCCCAGCGACCCGCCCGCCATGGGAGACGAGGATGAGGACGAGGGCTGCGCCGTGGAGCTGCAGATCAC
CGAAGCCAACCTCACCGGGCATGAGGAGAAGGTGAGCGTGGAGAACTTCGCGCTGCTCAAGGTGCTGGGC
ACGGGAGCCTATGGGAAGGTGTTCCTGGTGCGGAAGACGGGTGGGCACGACGCGGGCAAGCTCTATGCCA
TGAAGGTGCTACGCAAGGCGGCGTTGGTGCAGCGCGCGAAGACACAGGAGCATACCCGCACCGAACGCTC
GGTGCTGGAGCTGGTTCGCCAAGCACCCTTCCTGGTCACACTGCACTACGCCTTCCAGACGGATGCCAAG
CTGCACCTCATCCTGGACTACGTGAGCGGTGGTGAGATGTTCACTCACCTCTACCAGCGCCAGTACTTCA
AGGAGGCTGAGGTTCGAGTGTATGGGGGAGAGATTGTGCTGGCCCTGGAACACCTGCACAAGCTGGGTAT
CATCTACCGGGACCTGAAGCTGGAGAACGTCTTACTTGACTCAGAAGGTCACATCGTCCTTACAGACTTT
GGGCTGAGCAAGGAGTTCCTGACGGAGGAGAAAGAGCGGACCTTCTCCTTCTGTGGCACAATCGAGTACA
TGGCTCCCGAAATCATCCGAAGCAAGGCTGGACATGGCAAGGCTGTGGACTGGTGGAGCCTGGGTATCCT
GCTCTTCGAGCTGCTGACAGGAGCCTCACCCTTCACACTGGAGGGAGAGAGGAACACTCAGGCTGAGGTG
TCCCGACGGATCTTGAAGTGCTCCCCTCCCTTCCCTCTCCGGATTGGGCCTGTGGCACAGGACCTGCTAC
AGCGGCTGCTGTGCAAGGACCCTAAGAAGAGGTTGGGCGCAGGTCCCCAGGGTGCGCAGGAAGTCAAGAG
TCACCCCTTCTTCCAGGGTCTGGACTGGGTGGCTCTGGCTGCCAGAAAGATCCCAGCCCCATTCCGGCCC
CAGATCCGCTCAGAGCTGGATGTGGGGAATTTTGCGGAGGAATTCACCCGGCTGGAGCCCGTCTACCCCC
CTGCCGGCAGCCCTCCACCTGGGGACCCTCGGATCTTTCAGGGATACTCCTTCGTGGCTCCGTCCATCCT
CTTTGACCACAACAATGCAGTGATGGCTGATGTACTGCAGGCACCCGGTGCTGGATACAGGCCGGGCAGG
GCAGCAGTTGCCAGGAGTGCCATGATGCAGGACTCGCCTTTCTTCCAGCAGTACGAACTGGACCTTCGGG
AACCAGCACTGGGGCAGGGCAGCTTCTCTGTGTGTCGGAGATGTCGGCAGCGCCAGAGCGGCCAGGAGTT
TGCTGTCAAGATCCTCAGCCGCAGGCTGGAGGAGAACACTCAGAGAGAGGTGGCTGCTCTTCGCCTGTGC
CAGTCACACCCCAACGTGGTGAATCTGCATGAGGTGCTTCATGACCAGCTACACACTTACCTGGTCCTGG
AGTTGCTGCGAGGCGGAGAGCTATTGGAACACATCCGCAAGAAGCGGCTCTTCAGCGAGTCCGAGGCCAG
CCAGATCCTTCGGAGCCTGGTTTCGGCCGTGAGCTTCATGCACGAGGAGGCAGGCGTGGTGCACCGCGAC
CTGAAACCCGAGAACATCTTGTACGCGGACGACACTCCCGGGGCCCCGGTGAAGATCATCGACTTCGGGT
TCGCGCGACTGCGGCCCCAGAGCCCGGCAGAGCCCATGCAGACTCCTTGCTTCACACTGCAGTACGCTGC
ACCCGAGCTGCTGGCACAGCAGGGCTACGATGAGTCCTGCGATCTATGGAGCCTGGGTGTCATTCTGTAC
ATGATGCTGTCTGGCCAGGTTCCCTTCCAAGGGGCCTCGGGCCAGGGTGGACAGAGTCAGGCAGCTGAGA
TCATGTGCAAGATCCGTGAAGGGCGCTTCTCCCTGGACGGGGAAGCCTGGCAAGGTGTGTCGGAGGAAGC
CAAGGAGCTGGTCCGAGGGCTACTGACAGTCGACCCCGCCAAGCGGCTGAAGCTGGAGGGGCTGCGTAGC
AGCTCGTGGCTTCAGGACGGCAGCGCGCGCTCCTCGCCCCCGCTCCGCACGCCGGATGTGCTGGAGTCCT
CTGGGCCAGCTGTGCGTTCCGGGCTCAATGCCACTTTCATGGCGTTCAACCGAGGCAAGCGCGAGGGCTT
CTTTCTCAAGAGTGTAGAGAATGCGCCTCTGGCCAAGAGGCGCAAGCAGAAGCTCCGGAGCGCCGCCGCC
TCCCGTCGCGGCTCCCCAGTGCCTGCCTCCTCCGGTCGCCTACCAGCCTCTGCCGCTAAGGGGACAACTC
GCCGAGCCAACGGCCCCTTGTCCCCTTCCTAGCTCCCGCCACTGTGACCCCCTTACCTTTAGGAGCTCCG
ATCCGGGAGCCTGGTGCTGCCACCAGACTTTTGCCAGCGGCTCCCACTCTGATCCCTAGGAATTGCCCTC
CTCTCCACACCCACTTCCAGACAGAGCAGAAGTATTTTTATAAGCAGAGATTTTTAAAAAGTGTCTTACT
AGATAAGAGTTGGGGACACAGAGAAGCAACTGTTGTGAGCAAAGTGGAGCTTGGGGCTCCCTCGCCCGAT
CCCAATGCTGCCCCATCAGGAAGAGAGAAGGTCCTTTCCAGGAGCAACTCTGCTAAGAAAGGGCATCCTA
TCCTGTTCCTAAGTACCCAGTTGCCATGGAGAAGAAATCAGGAGCCCGTATACTGTGCTTCCCTGGGACT
TTGCCCCTAGGAGGGGACACCCATCAATGTCACTTTATGGACCGTGTGCAATGATGTCCACCAAAGACCT
GTGTTGGGAATGAGAGAGAGAGAGACCCTGAGGGACCTCTAGAGCATTTCTGAGATACATCACTTTTGTC
AACGGCTCCCCTAGTGGGGTTAAGGAAGAAGGCAGGTGCTCCCCAGGGGGAGCCCCTTTCTCACTCACCC
ATTCCTCATGGGCACAGCTGCTTCTGGCTGCAGGTGGAGCCTTAGGGTTCTGGGCTAGGCATCCACAGTC
ACTGCCTCAGCCCCTCTAGGCTGTGCCTTTGACTTTAAAATAAAACTCCACCCAGTGCTGCAAAAAAAAA AAAAAA

Restriction Sites: RsrII-NotI

ACCN: NM_019924

Insert Size: 2322 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:	BC012964, AAH12964
RefSeq Size:	3156 bp
RefSeq ORF:	2322 bp
Locus ID:	56613
UniProt ID:	Q9Z2B9
Cytogenetics:	19 A
Gene 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 factor RELA, and that contributes to gene activation by histone phosphorylation and functions in the regulation of inflammatory genes. Phosphorylates CREB1 and ATF1 in response to mitogenic or stress stimuli such as UV-C irradiation, epidermal growth factor (EGF) and anisomycin. Plays an essential role in the control of RELA transcriptional activity in response to TNF. 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. May also phosphorylate 'Ser-28' of histone H3. Mediates the mitogen- and stress-induced phosphorylation of high mobility group protein 1 (HMGN1/HMG14). In lipopolysaccharide-stimulated primary macrophages, acts downstream of the Toll-like receptor TLR4 to limit the production of pro-inflammatory cytokines. Functions probably by inducing transcription of the MAP kinase phosphatase DUSP1 and the anti-inflammatory cytokine interleukin 10 (IL10), via CREB1 and ATF1 transcription factors (By similarity).[UniProtKB/Swiss-Prot Function]