

Product datasheet for **SC126560**

p38 (MAPK14) (NM_001315) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	p38 (MAPK14) (NM_001315) Human Untagged Clone
Tag:	Tag Free
Symbol:	p38
Synonyms:	CSBP; CSBP1; CSBP2; CSPB1; EXIP; Mxi2; p38; p38ALPHA; PRKM14; PRKM15; RK; SAPK2A
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC126560 sequence for NM_001315 edited (data generated by NextGen Sequencing)

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ATGTCTCAGGAGGCCACGTTCTACCGCAGGAGCTGAACAAGACAATCTGGGAGGTG
CCCGAGCGTTACCAGAACCTGTCTCCAGTGGGCTCTGGCCCTATGGCTCTGTGTGTGCT
GCTTTTGACACAAAAACGGGTTACGTGTGGCAGTGAAGAAGCTCTCCAGACCATTTTCAG
TCCATCATTATGCGAAAAGAACCTACAGAGAACTGCGGTTACTTAAACATATGAAACAT
GAAAATGTGATTGGTCTGTTGGACGTTTTTACACCTGCAAGGTCTCTGGAGGAATTCAAT
GATGTGTATCTGGTGACCCATCTCATGGGGCAGATCTGAACAACATTGTGAAATGTCAG
AAGCTTACAGATGACCATGTTTCAGTTCCTTATCTACCAAATTCTCCGAGGTCTAAAGTAT
ATACATTCAGCTGACATAATTCACAGGGACCTAAAACCTAGTAATCTAGCTGTGAATGAA
GACTGTGAGCTGAAGATTCTGGATTTTGGACTGGCTCGGCACACAGATGATGAAATGACA
GGCTACGTGGCCACTAGGTGGTACAGGGCTCCTGAGATCATGCTGAACTGGATGCATTAC
AACCAGACAGTTGATATTTGGTCACTGGGATGCATAATGGCCGAGCTGTTGACTGGAAGA
ACATTGTTTCTGGTACAGACCATATTAACCAGCTTCAGCAGATTATGCGTCTGACAGGA
ACACCCCCCGTTATCTCATTAAACAGGATGCCAAGCCATGAGGCAAGAACTATATTCAG
TCTTTGACTCAGATGCCGAAGATGAACTTTGCGAATGTATTTATTGGTGCCAATCCCCTG
GCTGTGCGACTTGGTGGAGAAGATGCTTGTATTGGACTCAGATAAGAGAATTACAGCGGCC
CAAGCCCTTGACATGCCTACTTTGCTCAGTACCACGATCCTGATGATGAACAGTGGCC
GATCCTTATGATCAGTCCCTTTGAAAGCAGGGACCTCCTTATAGATGAGTGGAAAAGCCTG
ACCTATGATGAAGTCATCAGCTTTGTGCCACCACCCCTTGACCAAGAAGATGGAGTCC
TGA

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Clone variation with respect to NM_001315.2



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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_001315 unedited
 GCAGCAGCTGGAACGGGAGTACTGCGACGCGGCCCGGAGTCGGCCTTGTAGGGGCGAAGG
 TGCAGGGAGATCGCGCGGGGCGCAGTCTTGAGCGCCGGAGCGCGTCCCTGCCCTTAGCGG
 GGCTTGCCCCAGTCGCAGGGGCACATCCAGCCGCTGCGGCTGACAGCAGCCGCGCGCGCG
 GGAGTCTGCGGGTTCGCGGCAGCCGACCTGCGCGGGCGACCAGCGCAAGTCCCCGCC
 GGCTGGGCGGGCAGCAAGGGCCGGGAGAGGGTTCGGGTGACGGCGGGGGCCCCACAGGG
 CCACCTTCTTGCCCGCGGCTGCCGCTGGAAAAATGTCTCAGGAGAGGCCACGTTCTACC
 GGCAGGAGCTGAACAAGACAATCTGGGAGGTGCCCGAGCGTTACCAGAACCCTGTCTCCAG
 TGGGCTCTGGCGCCTATGGCTCTGTGTGTGCTGCTTTTACACCAAAAACGGGGTTACGTG
 TGGCAGTGAAGAAGCTCTCCAGACCATTTCAGTCCATCATTATGCGAAAAGACCTACAG
 AGAACTGCGGTTACTTAAACATATGAAACATGAAAATGTGATTGGTCTGTTGGACGTTTT
 TACACCTGGCAGGTCTCTGGAGGAATCAATGATGTGTATCTGGTGACCCATCTCAGGGGG
 GCAGATCTGAACACATTGTGAAAAGTCAAACCTACAGATGACATGTTTCAGTTCCTTATC
 TACCAAACTCTCGAGGTCTAAATATATACATCCAGCTGACTAATTACAGGGACCTAAACC
 TAATAATTAACNGAATGAAAATGGNACCGAGATCTGGATTTGGACGGCCN

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_001315 unedited
 CATCTTGNACCGCGCGCAATTTANGATCGAGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT
 TTTTTTTTTTTTTTTTTTAAATTTGAAAAAAGGCTTTATTTTAAACCAGGGTATTGT
 CTGACATCCTATACGGCATAACTGATTACACCCAAGTTCATGAATACAAATAAAATACCA
 ATCCCCCTCATTCTTTTTTTGTTTTCTGGCCAAAAAATCAGGAAATGGGACCATTATG
 CTCAAAAACCGAAAACTTTTCCAAAACCTCCAGCTTAAAGTCCAGGCTTCCAAAACATG
 CAGCCTCCTAACACGTATGGGGCCACATGTGCAAAAACCTTTATTACAAAATATTCAAAG
 CAGTTTTTTTGTAGGAAATCACCCGACCTTTTACAACCAACATGGGTGATAAAATTCAT
 CTTGCTGGGGATGGGGAGGATTTAAACTGCAATAAAGGAAATGAGGCCTTTACTTTAAAG
 GTTCACTTTCTTAAAAGGGGAAAGTCCCGGGTAAAAGGGAATCGCCATCAGTCTGCCT
 CCTTCTTTTTGCTCCAGTTGACTCAGGGGGTCCACCCTGGCCCTCTGGAACATGTATC
 ACTGCCCTGATTGAAAAATGGAACACCTTGGCCCAATAAAGATTCTGTACATACACCCA
 AACTGGAAGGGACTTTATACTTTCTTATTACCAAAAAGCTTAATATATGAGCCCTAATG
 TTAACCAAAATGCCTGAATTTTACAAGTTTAAAAAAGAACCCTTCTCCACCCTGGAGAT
 ATTTTATTCTTTATAAAGGTGAAAAATCAAATATTAATAAATTTGCCCTTTTTTCCCC
 CATTAAAGGGAACCCCATTTCCAAAAGAATCCCTACATATCCACAAATTTGAAACAAAA
 TTTTATTTTCCCCCACCAGAATATTATGTGTAC

Restriction Sites:

NotI-NotI

ACCN:

NM_001315

Insert Size:

4110 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_001315.1 , NP_001306.1
RefSeq Size:	3757 bp
RefSeq ORF:	1083 bp
Locus ID:	1432
UniProt ID:	Q16539
Cytogenetics:	6p21.31
Domains:	pkinase, TyrKc, S_TKc
Protein Families:	Druggable Genome, Protein Kinase
Protein Pathways:	Amyotrophic lateral sclerosis (ALS), Epithelial cell signaling in Helicobacter pylori infection, Fc epsilon RI signaling pathway, GnRH signaling pathway, Leukocyte transendothelial migration, MAPK signaling pathway, Neurotrophin signaling pathway, NOD-like receptor signaling pathway, Progesterone-mediated oocyte maturation, RIG-I-like receptor signaling pathway, T cell receptor signaling pathway, Toll-like receptor signaling pathway, VEGF signaling pathway
Gene Summary:	<p>The protein encoded by this gene is a member of the MAP kinase family. MAP kinases act as an integration point for multiple biochemical signals, and are involved in a wide variety of cellular processes such as proliferation, differentiation, transcription regulation and development. This kinase is activated by various environmental stresses and proinflammatory cytokines. The activation requires its phosphorylation by MAP kinase kinases (MKKs), or its autophosphorylation triggered by the interaction of MAP3K7IP1/TAB1 protein with this kinase. The substrates of this kinase include transcription regulator ATF2, MEF2C, and MAX, cell cycle regulator CDC25B, and tumor suppressor p53, which suggest the roles of this kinase in stress related transcription and cell cycle regulation, as well as in genotoxic stress response. Four alternatively spliced transcript variants of this gene encoding distinct isoforms have been reported. [provided by RefSeq, Jul 2008]</p> <p>Transcript Variant: This variant (1) encodes the longest isoform (1).</p>