

ATGGCAACCGCATCAGCCTCCCTTCTGATTTCCAGCACAAAGTTCACGGTGCAGGCCTCCCTACCATGGA
 TAAAGGAAGAGTCTTATCAACAGCCGCTCCAGTCTCCTGCAAGCCCCACCATATTCTCGCCTTCGA
 GCCATCCAGTTGACACCAGGTGAAAGCAGCAAAACCTGGGGCAGGAGCTCAGTCGTCCTCAAGGAGGAAG
 GGGAGGAGGAGGAGAAGAGGGCCCCAAAGAAGAAGGGACGGACGTGGGGGCCAGGGACGCTTGGTCAGAA
 GGAGCTTGCCTCGGGAGATGAAGGATCCCTCAGAGACGTGAGAAAGCTAATGGTTTAAAGTACCCCATCA
 GAATCTCCACATTTCCACTTGGGCCTCAAGTCCCTGGTAGATGGATAAAGCAGTGGTCTCCAGTGCCCC
 CCAACTGGTGAAGGGCCAAGGAGTAGCCCGGCCCTGCCAGGGTTCACCAGCCTTATGGAGATGGAGGA
 TGAGGACAGTGAAGGCCAGGGAGTGGAGAGAGTCGCCTACAGCATTACCCAGCCAGTCCCTACCTCTGT
 ATCCCATTCCTCGTGGAGAGGATGGCGATGGCCCTCCAGTGTGGAATCCATGAGGAGCCACCCACAG
 TCAACTCGGCCACGAGTACCCCTCAGCTGACGCCAACCAACAGCCTCAAGCGGGGCGGTGCCACCACCG
 CCGCTGCGAGGTGGCTCTGCTCGGCTGTGGGCTGTTCTGGCAGCCACAGGCCTAGGGTTGACTTGCTG
 GAAGCTGGCAAGTCCAGCTGCTTCCCCTGGAGGAGCCTGAGCCACCAGCCCGGAGGAGAAGAAAAGAC
 GGGAGGGTCTTTTCAGAGGTCCAGCCGCTCCTCGTCGGAGCACCAGCCCCCATCCCGAAAGCTTTTCAA
 GAAGGAGGAGCCCATGCTGTTGCTAGGAGACCCCTCTGCCTCCCTGACGCTGCTCTCCCTCTCTCCATC
 TCCGAGTGAACCTCCACAGCTCCCTGCTGCGCTCCGACAGCGATGAAATTGTCGTGTATGAGATGCCAG
 TCAGCCAGTCCAGGCCCCCTCCCTGAGTCCATGTACCCACAACCCCTGGTCAATGTCCGAGTAGAGCG
 CTTCAAACGAGATCCTAACCAATCTCTGACTCCCACCCATGTACCCCTACCACCCCTCGCAGCCACG
 AGTCACCGGCGGACTCCTTCTGATGGGGCCCTAAGCCAGAGACTCTCCTAGCCAGCAGGAGCCCTCCA
 GCAATGGGTTGAGCCCCAGTCTGGAGCAGGAATGTTGAAAACCCCAAGTCCCAGCCGAGACCCAGGTGA
 ATCCCCCGTCTCCCTGACCCCAATGTGGTCTTCCCCCAACCCCAAGGCGCTGGAACACTCAGCAGGAC
 TCTACCTTGGAGAGACCAAGACTCTGGAGTTTCTGCCTCGGCCGCGTCTTCTGCCAACCGGCAACGGC
 TGGACCTTGGTGGTTTGTGTCCCCAGCCATGCCCGCAGCACCTCCCCAGCCAACAGCTCCAGCACAGA
 GACGCCACAGCAACTGGACTCCTGCTTTGCTAGCAGTAGCAGCACTGTAGAGGAGCGGCCTTCCCA
 GCCCTGCTCCCGTTCAGAGCAGGCGCGCTGCCCCGACTGAGCGGACGCTCCTGGACTGGATGCAGAGG
 GGCAGAGTCAGGACAGCACCGTGCCTGTGCAGAGCGGAACTGAACACACACAGGCCTGCCCTTATGA
 GATCCAGCAGGAGTTCTGGTCT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC239973 representing NM_001284230
 Red=Cloning site Green=Tags(s)

MEPSRALLGLASAAAAAPPGEDGAGAGAEEEEEEEEEAAAVGPGELGCDAPLPYWTAVFEYEAAGEDE
 LTLRLGDVVEVL SKDSQVSGDEGWWTGQLNQRVGI FPSNYVTPRSFSSRCQPGGEDPSCYPPIQLLEID
 FAELTLEEIIGIGGFGKYYRAFVIGDEVAVKAAARHDPDEDISQTIENVRQEAFLFAMLKHPNIIALRGVC
 LKEPNLCLVMEFARGGPLNRVLSGKRIPPDILVNWAVQIARGMNYLHDEAIVPIIHRDLKSSNILILQKV
 ENGDL SNKILKITDFGLAREWHRTTKMSAAGTYAWMAPEVIRASMFSGSDVWSYGVLLWELLTGEVPPFR
 GIDGLAVAYGVAMNKLALPI PSTCPEPFAKLMEDCWNPDPHSRPSFTNILDQLTTIEESGFFEMPKDSFH
 CLQDNWKHEIQEMFDQLRAKEKELRTWEEELTRAAALQQKNQEELRRREQELAEREIDILERELNIIHQ
 LCQEKPRVKKRKGKFRKSRLKLDGNRISLPSDFQHKFTVQASPTMDKRKSLINSRSPASPTIIPRLR
 AIQLTPGESSKTWGRSSVVPKEEGEEEEKRAPKKKGRTWGPGLGQKELASGDEGSPQRREKANGSTPS
 ESPHFHLGLKSLVDGYKQWSSAPNLVKGPRSSPALPGFTSLMEMEDESEGPGSGESRLQHSPSQSYLC
 IPFPRGEDGDGSSDGIHEEPTVNSATSTPQLTPTNSLKRGGAHHRCEVALLGCGAVLAATGLGFDLL
 EAGKCQLLPLEEPEPPAREEKKRREGLFQRSSRPRRSTSPSRKLFKKEEPMLLLGDPSASLTLTSSSI
 SECNSTRSLLRSDSEIVVYEMPVSPVEAPPLSPCTHNPLVNVVRFKRDPNQSLTPTHVLTTPSQPS
 SHRRTPSDGALKPETLLASRSPSSNGLSPSPGAGMLKTPSPSRDPGEFPRLPDPNVVFPPTPRRWNTQQD
 STLERPKTLEFLPRRPSANRQLDPWWFVSPSHARSTSPANSSSTETPSNLDSCFASSTVEERPGLP
 ALLPFQAGPLPPTERTLLDLDAEQSQDSTVPLCRAELNTHRPAPYEIQQEFWS

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

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:	<u>NM_001284230.1, NP_001271159.1</u>
RefSeq Size:	11169 bp
RefSeq ORF:	3315 bp
Locus ID:	4293
UniProt ID:	<u>P80192</u>
Cytogenetics:	14q24.2
Protein Families:	Druggable Genome, Protein Kinase
MW:	122.3 kDa
Gene Summary:	Serine/threonine kinase which acts as an essential component of the MAP kinase signal transduction pathway. Plays an important role in the cascades of cellular responses evoked by changes in the environment. Once activated, acts as an upstream activator of the MKK/JNK signal transduction cascade through the phosphorylation of MAP2K4/MKK4 and MAP2K7/MKK7 which in turn activate the JNKs. The MKK/JNK signaling pathway regulates stress response via activator protein-1 (JUN) and GATA4 transcription factors. Plays also a role in mitochondrial death signaling pathway, including the release cytochrome c, leading to apoptosis.[UniProtKB/Swiss-Prot Function]