

Product datasheet for **SC319941**

PRAK (MAPKAPK5) (NM_139078) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PRAK (MAPKAPK5) (NM_139078) Human Untagged Clone
Tag:	Tag Free
Symbol:	PRAK
Synonyms:	MAPKAP-K5; MK-5; MK5; PRAK
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_139078.1
 GTGGCGCTGAGGCGGGCGGGAGCAGCGGCGCCGAGCTCTGCTTCGGCTTCGGCTTCGG
 CTTTCGGCGCGGTGCAGGCGGGAGGCGGAGGCGCAGGCTCTTCTTTAGGACCTGGCGAG
 CCCAGGCTAAGCGGGCCCGCGAGGCCCTTGACGGCGCCCCGGGTGAGGCGCCCTCC
 CCGCTCGCCCTACCCAGGAGCCTGCCTCCAGCTGGGGATGAGGCTAGGAGGCGGCC
 GCGTGGGGCCAGCACAAAGACCTGTCCCAGGGGCCCGCCCTCCGCCGCTGCTGCTGC
 CGCCAGCCTAGAGCCCGCCGGAAGCAGAGCCGGCGCCGGGTCTCATCCCCACCGGT
 CCGAGGGGCGGCTGCTGCCGTGCGCACGAGGCCAGGGGCCGAGTGCCGAGCCCTTT
 GCTCCCTCGGCCGCGGGGACAGGGCTGCTGAGCAGCCTCCGCCTCTCCCGGTGTGGG
 GGCCCCACTGAGTATGTCGGAGGAGAGCAGATGGACAAAGCCATCAAGGAAACTCCAT
 TTTAGAAGAATACAGTATCAATTGGACTCAGAAGCTGGGAGCTGGAATTAGTGGTCCAGT
 TAGAGTCTGTGTAAGAAATCTACTCAAGAACGGTTTGCCTGAAAATCTTCTTGATCG
 TCCAAAAGCTAGAAATGAGGTACGTCTGCACATGATGTGTCCACACACCCAAACATAGT
 TCAGATTATTGAAGTGTGCTAACAGTGTCCAGTTTCCCATGAGTCCAGCCCTAGGGC
 CCGACTCTTAATTGTAATGGAGATGATGGAAGGGGAGAGCTATTTACAGAATCAGCCA
 GCACCGCACTTTACAGAGAAGCAAGCCAGCCAAGTAACAAAGCAGATAGCTTTGCTCT
 GGGCACTGTCACTTGTAAACATTGCGCACAGAGACCTCAAGCCTGAAAATCTGCTTTT
 TAAGGATAACTCTTTGGATGCCCAAGTGAAGTTGTGTGACTTTGGATTTGCCAAGATTGA
 CCAAGGTGACTTGATGACACCCAGTTCACCCCTATTATGTAGCACCCAGGACTGGA
 GGCGCAAAGAAGGCATCAGAAGGAGAAATCTGGCATCATACCTACCTCACCGACGCCCTA
 CACTTACAACAAGAGCTGTGACTTGTGGTCCCTAGGGTGATTATCTATGTGATGCTGTG
 CGGATACCCTCTTTTACTCCAACACCACAGCCGACTATCCCAAAGGATATGCGAAG
 AAAGTCATGACAGGCAGTTTGTAGTTCCAGAGGAAGAGTGGAGTCAGATCTCAGAGAT
 GGCCAAAGATGTTGTGAGGAAGCTCCTGAAGGTCAAACCGGAGGAGAGACTCACCATCGA
 GGGAGTGTGGACCACCCTGGCTCAATTCACCGAGGCCCTGGATAATGTGCTGCCTTC
 TGCTCAGTGTGATGGACAAGGCAAGTGTGTCAGGAATCCAGCAGGCTCACGCGGAACA
 GTTGGCCAACATGAGAATCCAGGATCTGAAAGTCAGCCTCAAACCCCTGCACTCAGTGAA
 CAACCCATTCTGCGGAAGAGGAAGTACTTGGCACCAGCCAAAGGACAGTGTCTATAT
 CCACGACCATGAGAATGGAGCCGAGGATCCAATGTTGCCTTGGAAAACTCCGAGATGT
 GATTGCTCAGTGTATTCTCCCCAGGCTGGAGAGAATGAAGATGAGAACTGAATGAAGT
 AATGCAGGAGGCTTGAAGTATAACCGGAATGCAAACCTCTAAGAGATACTCTGCAGAG
 CTTCAGCTGGAATGGTCTGGATTACAGATAAAGTAGATCGACTAAAACCTGGCAGAAAT
 TGTGAAGCAGGTGATAGAAGAGCAAACACGTCACGAATCCCAATAATGACAGCTTCA
 GACTTTGTTTTTTAACAATTTGAAAAATTATTCTTTAATGTATAAAGTAATTTTATGTA
 AATTAATAAATCATAATTTTCATTTCAAAAAAAAAAAAAAAAAAAAA

Restriction Sites: Please inquire

ACCN: NM_139078

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).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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: [NM_139078.1](#), [NP_620777.1](#)

RefSeq Size: 2066 bp

RefSeq ORF: 1422 bp

Locus ID: 8550

UniProt ID: [Q8IW41](#)

Cytogenetics: 12q24.12-q24.13

Domains: pkinase

Protein Families: Druggable Genome, Protein Kinase

Protein Pathways: MAPK signaling pathway

Gene Summary: The protein encoded by this gene is a tumor suppressor and member of the serine/threonine kinase family. In response to cellular stress and proinflammatory cytokines, this kinase is activated through its phosphorylation by MAP kinases including MAPK1/ERK, MAPK14/p38-alpha, and MAPK11/p38-beta. The encoded protein is found in the nucleus but translocates to the cytoplasm upon phosphorylation and activation. This kinase phosphorylates heat shock protein HSP27 at its physiologically relevant sites. Two alternately spliced transcript variants of this gene encoding distinct isoforms have been reported. [provided by RefSeq, Nov 2012] Transcript Variant: This variant (2) contains an extra 6 nt segment in the coding region when compared to variant 1. It encodes an isoform (2) longer by 2 aa, as compared to isoform 1.