

Product datasheet for **SC109943**

PRAK (MAPKAPK5) (NM_003668) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PRAK (MAPKAPK5) (NM_003668) Human Untagged Clone
Tag:	Tag Free
Symbol:	PRAK
Synonyms:	MAPKAP-K5; MK-5; MK5; PRAK
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_003668 edited
 GCCGAGCCCTTTGCTCCCTCGGCCGCGGGGACAGGGCTGCTGAGCAGCCTCCGCCTCT
 CCCGGCTGTGGGGGCCCACTGAGTATGTCGGAGGAGAGCGACATGGACAAAGCCATCAA
 GGAAACTCCATTTTAGAAGAATACAGTATCAATTGGACTCAGAAGCTGGGAGCTGGAAT
 TAGTGGTCCAGTTAGAGTCTGTGTAAAGAAATCTACTCAAGAACGGTTTGCCTGAAAAT
 TCTTCTTGATCGTCCAAAAGCTAGAAATGAGGTACGTCTGCACATGATGTGTGCCACACA
 CCCAAACATAGTTCAGATTATTGAAGTGTGGTAAACAGTGTCCAGTTTCCCCATGAGTC
 CAGCCCTAGGGCCGACTCTTAATTGTAATGGAGATGATGGAAGGGGAGAGCTATTTCAC
 CAGAATCAGCCAGCACCCGCACTTTACAGAGAAGCAAGCCAGCCAAGTAAACAAAGCAGAT
 AGCTTTGGCTCTGCGGCACTGTCACTTGTAAACATTGCGCACAGAGACCTCAAGCCTGA
 AAATCTGCTTTTTAAGGATAACTCTTTGGATGCCCAAGTGAAGTTGTGTGACTTTGGATT
 TGCCAAGATTGACCAAGGTGACTTGATGACACCCAGTTCACCCCTATTATGTAGCACC
 CCAGGTACTGGAGGCGAAAGAAGGCATCAGAAGGAGAAATCTGGCATCATACTACCTC
 ACCGACGCCCTACACTTACAACAAGAGCTGTGACTTGTGGTCCCTAGGGGTGATTATCTA
 TGTGATGTGTGCGGATACCCTCTTTTTACTCCAACACCACAGCCGGACTATCCCAA
 GGATATGCGAAGAAAGATCATGACAGGCAGTTTTGAGTCCCAGAGGAAGAGTGGAGTCA
 GATCTCAGAGATGGCCAAAGATGTTGTGAGGAAGCTCCTGAAGGTCAAACCGGAGGAGAG
 ACTCACCATCGAGGGAGTGTGGACCACCCTGGCTCAATTCCACCGAGGCCCTGGATAA
 TGTGCTGCCTTCTGCTCAGCTGATGATGGACAAGGCAGTGGTTCAGGAAATCCAGCAGGC
 TCACGCGGAACAGTTGGCCAACATGAGAATCCAGGATCTGAAAGTCAGCCTCAAACCCCT
 GCACTCAGTGAACAACCCATTCTGCGGAAGAGGAAGTACTTGGCAGCAAGCCAAAGGA
 CAGTGTCTATATCCAGACCATGAGAATGGAGCCGAGGATTCCAATGTTGCCTTGGAAAA
 ACTGAATGAAGTAATGCAGGAGGCTTGAAGTATAACCGGAATGCAAACCTCCTAAGAGA
 TACTCTGCAGAGCTTCACTGGAATGGTGTGATTACACAGATAAAGTAGATCGACTAAA
 ACTGGCAGAAATTGTGAAGCAGGTGATAGAAGAGCAAACCACGTCCCACGAATCCCAATA
 ATGACAGCTTCAGACTTTGTTTTTTAACAATTTGAAAAATTATCTTTAATGTATAAAG
 TAATTTTATGTAATTAATAATCATAATTTCAATTCACATTGATTAAGCTGCTGTAT
 AGATTTAGGGTGCAGGACTTAATAATAGTATAGTTATTGTTTGTAAAAAGCTCA
 GTTCTAGAGACATACTATTACTTTAGGACTGTGTAGTTGATATTTGTAAGATGACAGAT
 GATGCTGTCAAGCAATATTGTTTTATTTGTAATAAAATATACAAAATCACTTGCCAGCA
 GTAGAAAAAGGACCGACTATACCGACCTTCTGATTAGTAAACAGTTGAATCAAGGACTC
 TGGATTCTGTTTCAAAAAAAAAAAAAAAAAA

- Restriction Sites:** Please inquire
- ACCN:** NM_003668
- Insert Size:** 1900 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).
- OTI Annotation:** The ORF of this clone has been fully sequenced and found to be a perfect match to NM_003668.2.
- 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_003668.2](#), [NP_003659.2](#)

RefSeq Size: 2060 bp

RefSeq ORF: 1416 bp

Locus ID: 8550

UniProt ID: [Q8IW41](#)

Cytogenetics: 12q24.12-q24.13

Domains: pkinase, TyrKc, S_TKc

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 (1) is the more frequently occurring transcript.