

## Product datasheet for **SC205182**

### **PRAK (MAPKAPK5) (NM\_003668) Human 3' UTR Clone**

#### **Product data:**

Product Type:	3' UTR Clones
Product Name:	PRAK (MAPKAPK5) (NM_003668) Human 3' UTR Clone
Symbol:	PRAK
Synonyms:	MAPKAP-K5; MK-5; MK5; PRAK
Mammalian Cell Selection:	Neomycin
Vector:	pMirTarget (PS100062)
ACCN:	NM_003668
Insert Size:	2000 bp



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**Insert Sequence:** >SC205182 3'UTR clone of NM\_003668  
 The sequence shown below is from the reference sequence of NM\_003668. The complete sequence of this clone may contain minor differences, such as SNPs.  
 Blue=Stop Codon Red=Cloning site

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GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAAGCCAAGAAGGGCGGAAAGATCGCCGTG
TAACAATTGGCAGAGCTCAGAATTCAGCGATCGCC
GAGCAAACCACGTCCCACGAATCCCAATAATGACAGCTTCAGACTTTGTTTTTTTAAACAATTTGAAAAA
TTATTCTTTAATGTATAAAGTAATTTTATGTAAATTAATAAATCATAATTTTCATTTCACATTGATTAA
AGCTGCTGTATAGATTTAGGGTGCAGGACTTAATAATAGTATAGTTATTGTTTTTAAAGAAAAGCT
CAGTTCTAGAGACATACTATTACTTTAGGACTGTGTAGTTGTATATTTGTAAGATGACAGATGATGCTG
TCAAGCAATATTGTTTTATTTGTAATAAAATACAAAAATCACTTGCCAGCAGTAGAAAAAGGACCGA
CTATACCGACCTTCTGATTAGTAAACAGTTGAATCAAGGACTCTGGATTCTGGTTTCAATTGCCCTGT
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CTGCTTGCTGGAACCTCACAGGAGGCACACTTGAGCTTGGGGAGCCAACCTCCATGATGGAAGAAGAGGG
AGGTGAGCCCTCATTCTCCTGCCCCCTAATCCCAAGAGAAAAGCAGGAACATTTCTTTTTTGTACATA
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TTTTTTTTTTGAGACAGAGTCTTGCTGTTGTAGTGGAGGCTGGAGTACAGTGGCACTATCTCCGCTCA
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TGGTCTTGAACCTCTGACCTCAGGTGATACGCTGCCTTGGCCTCCCAAAGTGTGGGATTACAGGCGT
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GCTAATTTTTGTATTTTAGTAGAGACAGGGTTTACCATGTTGGCCAGGCTGGTCTCGAACTCCTGAC
CATCCACCTCAGCCTCTCAAAGTACTGGGATTACAGGCATGAGCCACCAAGCCTGGCCTATTCTTTATA
TGTTTAAACCGAGCTTCCCTTTCCCTTCCAGGAGGCTCCTGCTTGTCTTTCCCTTCCCTGCAGCCT
TCACCAGTCCATTACTCTTATTTCTGTTCCCTGTTCTCTGGTCTGTTTTTGAATAACTTGTCCG
AGAAATTTACATATAATTAATTGAAGTGGGACTATTGGATTATCATGTAAGATGATCCAGTTTTGGTTT
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CTGATTTATCTGTTTATTACCCTTCATTTTCAGGAAGCATGGTTTTGGCCCCGAGAGCAGCTGTTTG
AAGGAAAAATAAGGCTAGGTCCTTTTTTAGTTTTCTGTTGTGAGTATGGGTTTCCATAACAAACCAATT
TTCGTGTATATGTGTGTGTGTGTGTGTGTGTGAAGCAGTTTTTGGTGGGTACTIONTACGTTGGTACA
TAGAAAAGCTGGCAGGTAGACTCCAGCTCGCAGAGCAGAGGGAGAGGATAGTCATCTGTTATTCAATTT
TTTCTCATCTCATTCTCTCGATCAAAATTGATCTCACCAGCAACTATTTTCTAACTCCTCCACTGTG
CTGAGTAATTCCTCCACCTGAATCTTCAGGGTGACATTTGGTTAGTATGCCCTGTATGTGTGTGACT
ACGCGTAAGCGGCCGCGGCATCTAGATTCGAAGAAAATGACCGACCAAGCGACGCCCAACCTGCCATCA
CGAGATTCGATTCCACCGCCGCTTCTATGAAAGG
  
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**Restriction Sites:** SgfI-MluI

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the sequence identifier above as a point of reference. Note that the complete sequence of this clone is largely the same as the reference sequence but may contain minor differences , e.g., single nucleotide polymorphisms (SNPs).

**Components:** The cDNA clone is shipped in a 2-D bar-coded Matrix tube as 10 ug dried plasmid DNA. The package also includes 100 pmols of both the corresponding 5' and 3' vector primers in separate vials.

**RefSeq:** [NM\\_003668.4](#)

**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]

**Locus ID:**

8550

**MW:**

75.8