

Product datasheet for **SC109105**

p38 (CRK) (NM_005206) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	p38 (CRK) (NM_005206) Human Untagged Clone
Tag:	Tag Free
Symbol:	p38
Synonyms:	CRKII; p38
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_005206, the custom clone sequence may differ by one or more nucleotides

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ATGGCGGGCAACTTCGACTCGGAGGAGCGGAGTAGCTGGTACTGGGGGAGGTTGAGTCGGCAGGAGGCGG
TGGCGCTGCTGCAGGGCCAGCGGCACGGGGTGTTCCTGGTGCGGGACTCGAGCACCAGCCCCGGGGACTA
TGTGCTCAGCGTCTCAGAGAAGCTCGCGCGTCTCCCACTACATCATCAACAGCAGCGGCCCGCCCGCCG
GTGCCACCGTCGCCCCGCCAGCCTCCGCCCGGGTGAGCCCTCCAGACTCCGAATAGGAGATCAAGAGT
TTGATTCATTGCCTGCTTACTGGAATTCTACAAAATACACTATTTGGACTACAACGTTGATAGAACC
AGTTTCCAGATCCAGGCAGGGTAGTGGAGTGATTCTCAGGCAGGAGGAGGCGGAGTATGTGCGAGCCCTC
TTTGACTTTAATGGGAATGATGAGGAAGATCTTCCCTTTAAGAAAGGAGACATCTTGAGAATCCGGGACA
AGCCTGAAGAGCAGTGGTGAATGCGGAGGACAGCGAAGCAAGAGAGGGATGATTCCAGTCCCTTACGT
CGAGAAGTATAGACCTGCCTCCGCTCAGTATCGGCTCTGATTGGAGGTCGGTGA
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_005206 unedited
 TTTGTAATACGACTCACTATAGGGCGGCCGCAATTCGGCACGAGGTTCCGGGCGCTGCTG
 TGAAGCTGAAACCGGAGCCGGTCCGCTGGGCGCGGGCGCCGGGGCCGGAGGGGCGCGC
 GCGGCGGCGGCACCCAGCGTTTAGGCGCGGAGGCAGCCATGGCGGGCAACTTCGACTCG
 GAGGAGCGGAGTAGCTGGTACTGGGGCGGTTGAGTCGGCAGGAGGCGGTGGCGCTGCTG
 CAGGGCCAGCGGCACGGGGTGTTCCTGGTGCGGACTCGAGCACCAGCCCGGGGACTAT
 GTGCTCAGCGTCTCAGAGAACTCGCGCTCTCCACTACATCATCAACAGCAGCGGCCCG
 CGCCCGCGGTGCCACCGTCGCCCGCCAGCCTCCGCCCGGGTGAGCCCTCCAGACTC
 CGAATAGGAGATCAAGAGTTTGATTTCATTGCTGCTTTACTGGAATTCTACAAAATACAC
 TATTTGGACACTACAACGTTGATAGAACCAGTTTCCAGATCCAGGCAGGGTAGTGGAGTG
 ATTCTCAGGCAGGAGGAGCGGAGTATGTGCGAGCCCTTTTGACTTTAATGGAATGAT
 GAGGAAGATCTTCCCTTAAGAAAGGAGACATCTTGAATCCGGGACAAGCCTGAAGAG
 CAGTGGTGAATGCGGAGGACAGCGNAAGCAAGAGAGGGATGATCCAGTCCCTACGTC
 GAGAAGTATAGACCTGCCTNCGCCTCAGTATCGGCTCTGATTGGAGGGTCGTGAGCTGGT
 AAAGNTACGAAGATTAATGTGAGTGGNTCANTGGGAANGGGGAGTGTATGGCAANACG
 AGTCACTTNCATTACACATGTNCGTCTGCTGGATCAACAGAANTCCGATGAGGGACTCA
 GCTGAGTATAGNTCAACAN

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_005206 unedited
 TTTTTTGCTTTGTACCGCGGCCCAATCTAGNATCGAGTTTTTTTTTTTTTTTTTTGAG
 ACTGAGTCTTGCCCTGTCGCTCAGGCTGGAACGCAGTGGTGCATCTCGGCTCACTGCAG
 CCTCCACCTCCCAGGTTGAAGCAATTCTCTGCCTCAGCCTCCCGAGTAGCTGGGATTAC
 AGGCGTGCACCACCACCGCGGTAATTTTTTATATCTTTAGCAGAGATGGGGTCTCACT
 ATGTCGGCCAGGCTGGCCTCGAACTCCTGACCTCATGATCCACCCGCCTCGGCCTCCAA
 AGTGTGGGATTACAGACGTGAGCCACCGTGCCAGTCCGTTCAAACATTTTTTTAAAGCA
 CTAACCTACCCAAATTCCTGTCACTACTAGCCCCGCCTTTATCCCGTTGCACCCCC
 TCGCAGACGGCCCAACCTGACCCTAAACCTCCCCACCACTATTATTAGGTGATATG
 TTCCCTGGGACCCACCGACCCCACTTCGCGACCCCCCGAGGCTGCCTACTCCGCC
 TCCGCCCCCTCTCGCCTACACGGCTCGTGTGAGACATCTAAATTTCTTCTTCTA
 ATCATCCCCCTCCCCTCTTTTCGATTCCCCCGTCCCCCTCTCCCGCAACTTTA
 CACTATCCCCCTCCCCCTCCGCCCCCACCACCCCAACCCCGCCTTCTCTC
 TCCGCCCCACCATGGTTTTCTCCCTCTCCGCGCCCTCTCNTCCACATTATATAAT
 TAATTTGCGGCCCCCGCCGAACCGCCCTGCGTACCCTCTCGTTGTTGTGCACCTCCT
 TCTTTTCCCTTCCCTTCCCTCTACACCATNTCCCCCTATCCCTCCTCATTCA
 TGATTTCCGCCCCCGGATAGCCCTACAGGCACTCCCCCGCGCTTCGCGTCAACCAC
 CGTCCCCCGCTCGTATCTCCCTGCCCT

Restriction Sites:

NotI-NotI

ACCN:

NM_005206

Insert Size:

2190 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_005206.3 , NP_005197.3
RefSeq Size:	2245 bp
RefSeq ORF:	615 bp
Locus ID:	1398
UniProt ID:	P46108
Cytogenetics:	17p13.3
Domains:	SH2, SH3
Protein Families:	Druggable Genome, Transcription Factors
Protein Pathways:	Chemokine signaling pathway, Chronic myeloid leukemia, ErbB signaling pathway, Fc gamma R-mediated phagocytosis, Focal adhesion, Insulin signaling pathway, MAPK signaling pathway, Neurotrophin signaling pathway, Pathways in cancer, Regulation of actin cytoskeleton, Renal cell carcinoma
Gene Summary:	<p>This gene encodes a member of an adapter protein family that binds to several tyrosine-phosphorylated proteins. The product of this gene has several SH2 and SH3 domains (src-homology domains) and is involved in several signaling pathways, recruiting cytoplasmic proteins in the vicinity of tyrosine kinase through SH2-phosphotyrosine interaction. The N-terminal SH2 domain of this protein functions as a positive regulator of transformation whereas the C-terminal SH3 domain functions as a negative regulator of transformation. Two alternative transcripts encoding different isoforms with distinct biological activity have been described. [provided by RefSeq, Jul 2008]</p> <p>Transcript Variant: This variant (l) represents the shorter transcript and encodes the shorter isoform (b). Isoform b increases transformation activity due to the loss of a SH3 domain.</p>