

## Product datasheet for **SC324918**

### p38 (CRK) (NM\_016823) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	p38 (CRK) (NM_016823) Human Untagged Clone
Tag:	Tag Free
Symbol:	p38
Synonyms:	CRKII; p38
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC324918 representing NM_016823. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTGTAAACGACTACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGGCGGGCAACTTCGACTCGGAGGAGCGGAGTAGCTGGTACTGGGGGAGGTTGAGTCGGCAGGAGGGC
GTGGCGTGTGCAGGGCCAGCGGCACGGGGTGTCTCTGGTGCGGGACTCGAGCACCAGCCCCGGGGAC
TATGTGCTCAGCGTCTCAGAGAACTCGCGCGTCTCCACTACATCATCAACAGCAGCGGCCCGGCCCG
CCGGTGCCACCGTCGCCCCCCAGCCTCCGCCGGGTGAGCCCCCAGACTCCGAATAGGAGATCAA
GAGTTTGATTCATTGCCTGCTTTACTGGAATTCTACAAAATACACTATTTGGACTACAACGTTGATA
GAACCAGTTTCCAGATCCAGGCAGGAGTAGTGGAGTGATTCTCAGGCAGGAGGAGCGGAGTATGTGCGA
GCCCTCTTTGACTTTAATGGGAATGATGAGGAAGATCTTCCCTTAAGAAAGGAGACATCTTGAGAATC
CGGGACAAGCCTGAAGAGCAGTGGTGAATGCGGAGGACAGCGAAGGCAAGAGAGGGATGATCCAGTC
CCTTACGTCGAGAAGTATAGACCTGCCTCCGCCTCAGTATCGGCTCTGATTGGAGGTAACCAGGAGGGT
TCCCACCCACAGCCACTGGGTGGCCGGAGCCTGGGCCCTATGCCCAACCAGCGTCAACTCCGCTC
CCTAACCTCCAGAATGGGCCATATATGCCAGGGTTATCCAGAAGCGAGTCCCCAATGCCTACGACAAG
ACAGCCTTGGCTTTGGAGGTCGGTGAGCTGGTAAAGGTTACGAAGATTAATGTGAGTGGTCAGTGGGAA
GGGGAGTGAATGGCAAACGAGGTCCTTCCCATTACACATGTCCGTCTGCTGGATCAACAGAATCC
GATGAGGACTTCAGTGA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites:	Sgfl-Mlul
ACCN:	NM_016823
Insert Size:	915 bp



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<b>OTI Disclaimer:</b>	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).
<b>OTI Annotation:</b>	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.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<u><a href="#">NM_016823.3</a></u>
<b>RefSeq Size:</b>	3225 bp
<b>RefSeq ORF:</b>	915 bp
<b>Locus ID:</b>	1398
<b>UniProt ID:</b>	<u><a href="#">P46108</a></u>
<b>Cytogenetics:</b>	17p13.3
<b>Domains:</b>	SH2, SH3
<b>Protein Families:</b>	Druggable Genome, Transcription Factors
<b>Protein Pathways:</b>	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
<b>MW:</b>	33.8 kDa

**Gene Summary:**

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]

Transcript Variant: This variant (II) includes an alternate segment, compared to variant I, resulting in a longer protein (isoform a) that has a distinct C-terminus and an additional SH3 domain, compared to isoform b. Isoform a is a negative modulator of transformation activity.