

Product datasheet for **SC320373**

p38 (CRK) (NM_005206) Human Untagged Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | p38 (CRK) (NM_005206) Human Untagged Clone |
| Tag: | Tag Free |
| Symbol: | p38 |
| Synonyms: | CRKII; p38 |
| 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_005206.3
 GGGCACGAGGCTGCTGTGAAGCTGAAACCGGAGCCGGTCCGCTGGGCGGCGGGCGCCGGG
 GGCCGGAGGGGCGCGCGGGCGGCACCCAGCGTTTAGGCGCGGAGGCAGCCATGGC
 GGGCAACTTCGACTCGGAGGAGCGGAGTAGCTGGTACTGGGGAGGTTGAGTCGGCAGGA
 GGCGGTGGCGCTGCTGCAGGGCCAGCGGCACGGGTGTTCTTGGTGCGGGACTCGAGCAC
 CAGCCCCGGGACTATGTGCTCAGCGTCTCAGAGAACTCGCGCTCTCCACTACATCAT
 CAACAGCAGCGGCCCGCCCGCGCCGTCGCCACCGTCGCCCGCCAGCCTCCGCCGGGT
 GAGCCCCCAGACTCCGAATAGGAGATCAAGAGTTTGATTCAATGCCTGCTTTACTGGA
 ATTCTACAAAATACACTATTTGGACACTACAACGTTGATAGAACCAGTTTCCAGATCCAG
 GCAGGGTAGTGGAGTGATTCTCAGGCAGGAGGAGCGGAGTATGTGCGAGCCCTCTTTGA
 CTTTAATGGGAATGATGAGGAAGATCTTCCCTTAAAGAAAGGAGACATCTTGAGAATCCG
 GGACAAGCCTGAAGAGCAGTGGTGAATGCGGAGGACAGCGAAGGCAAGAGAGGGATGAT
 TCCAGTCCCTTACGTCGAGAAGTATAGACCTGCCTCCGCCTCAGTATCGGCTCTGATTGG
 AGGTCGGTGAGCTGGTAAAGGTTACGAAGATTAATGTGAGTGGTCAAGTGGGAAGGGGAGT
 GTAATGGCAAACGAGTCACTTCCATTACACATGTCCGTCTGCTGGATCAACAGAATC
 CCGATGAGGACTTCAGCTGAGTATAGTTCAACAGTTTTGCTGACAGATGGGAACAATCTT
 TTTTTTTTTTTTCCAACCTGCCATCTATACAATTTTCTTACAGATGTCAAAGCAGTCTA
 GTTTATATAAGCATTCTGTTACCTGTGATATTTTTAGACTGAACTGCTCCATTCCTAGT
 CTTAATTACCATATTCAGGGTACGAACTGGAGGGCTTGTGTGTTAGCTTCTGAATTGGCA
 ATTGGAGGCGGTAGTGGTCGTGCCTGTGTGATCAGAAGGGATAGGTATCTTGCCTCCTT
 TCTCTCAGGCAGTGCAAATCACCTGTGGAAAACCGATGGACAGGAAGGAGTGTACACA
 CTGCTTACCCTGATTTATTCAGTGGTTTTGTTTTTATTCTGGAACCATACTATCAAATGG
 CGACAGACTGTTCCGTTCCACCCCGTGAAGTAATCATGCACCGTGTGAATAGTATCAAG
 CAGGATTGCTTTCAATGTATGGAGCATGACCAGCGTGTGACTATTCTGACATTTAGAT
 CCTAAGAATTCTAAGAACAATACTAGAAGCATTGTTCCCTCCTAGTCAATGCTTCATAC
 TTTTTCTTGGGATTCTTTTAGCCCTTGACATTCTGTCCCCAAACCTGTAAGTAGGTGA
 ATTCCTAAGATAAGTGTGATTTTTCATTCCAGGTGAAAAGCAGGATGTACCGAGCACTTT
 ATTCAGTGCATAGCTTAAAGCCAGTGTGGATTCACTAAGTGGACAGCCAGTCTCCAGC
 TCTCTGCCTTCCCAAAGGGTCGTAGTAGGTACCCTTCTACAGCAGCTAACTAGAGTC
 CTAATAATGGGATCCAGCAGGGCCATTTCTCCAGAGGGCCAGTATCCTATTAGGAGACT
 CTTGGAATCTTAGGTTCTACTCAAGAGTGAAGGACCAATCACCTCTGATATTCTGTGG
 AAGGTTTTGGGGTCAAATTCGCCCTCTGCATTCTGTGCAACTTGTATAAAGTCAAGTT
 AGTATTACATGAATTTGGGGTAGGGTGTGCTTTGAAAAAATGTTGAACCGGCTGGGCG
 CGGTGGCTCACGTCTGTAATCCCAGCACTTTGGGAGGCCGAGGCGGGTGGATCATGAGGT
 CAGGAGTTCGAGACCAGCCTGGCCAACATAGTGAACCCCATCTCTGCTAAAGATATAAA
 AAATTAGCCCGCGTGGTGGTGCACGCCTGTAATCCCAGTACTCGGGAGGCTGAGGCAG
 GAGAATTGCTTCAACCTGGGAGGTGGAGGCTGCAGTGAGCCGAGATCGCACCACTGCGTT
 CCAGCCTGAGCGACAGGGCAAGACTCAGTCTCAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
 AAAAAAAAAA

- Restriction Sites:** Please inquire
- ACCN:** NM_005206
- 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.

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| 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: | <u>NM_005206.3</u> , <u>NP_005197.3</u> |
| RefSeq Size: | 2245 bp |
| RefSeq ORF: | 615 bp |
| Locus ID: | 1398 |
| UniProt ID: | <u>P46108</u> |
| 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> |