

Product datasheet for RC203438

p38 (CRK) (NM_005206) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: p38 (CRK) (NM_005206) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: p38
Synonyms: CRKII; p38
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC203438 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGGGCAACTTCGACTCGGAGGAGCGGAGTAGCTGGTACTGGGGGAGGTTGAGTCGGCAGGAGGCGG
 TGGCGTCTGCAGGGCCAGCGGCACGGGGTGTTCCTGGTGGGACTCGAGCACCAGCCCCGGGGACTA
 TGTGCTCAGCGTCTCAGAGAATCGCGCTCTCCACTACATCATCAACAGCAGCGGCCCGCCCGCCG
 GTGCCACCGTCGCCGCCAGCCTCCGCCGGGTGAGCCCTCCAGACTCCGAATAGGAGATCAAGAGT
 TTGATTCATTGCCTGCTTACTGGAATTCTACAAAATACACTATTGGACTACAACGTTGATAGAACC
 AGTTTCCAGATCCAGGCAGGGTAGTGGAGTGATTCTCAGGCAGGAGGAGCGGAGTATGTGCGAGCCCTC
 TTTGACTTTAATGGGAATGATGAGGAAGATCTTCCCTTTAAGAAAAGGAGACATCTTGAGAATCCGGGACA
 AGCCTGAAGAGCAGTGGTGAATGCGGAGGACAGCGAAGGCAAGAGAGGGATGATCCAGTCCCTTACGT
 CGAGAAGTATAGACCTGCCTCCGCCTCAGTATCGGCTCTGATTGGAGGTCGG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC203438 protein sequence
 Red=Cloning site Green=Tags(s)

MAGNFDSEERSSWYWGRLSRQEAVALQLQQRHGVFLVRDSTSPGDYVLSVENSRSVSHYIINSSGPRPP
 VPPSPAQPPPGVSPSRLRIGDQEFDSLPALEFYKIHLYDITTLIEPVSRSRQSGVILRQEEAEYVRAL
 FDFNGNDEEDLFPKKGDILRIRDKPEEQWNAEDSEGKRGMIIPVYVEKYRPPASASVSALIGGR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV



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Chromatograms: https://cdn.origene.com/chromatograms/mk6424_h12.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_005206

ORF Size: 612 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_005206.5](#)

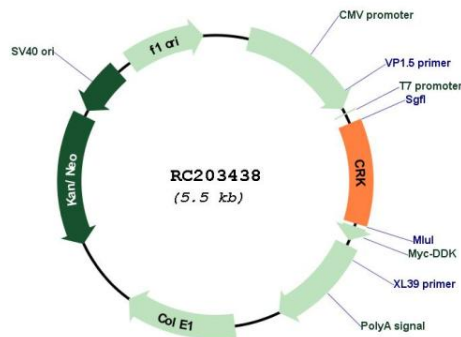
RefSeq Size: 3055 bp

RefSeq ORF: 615 bp

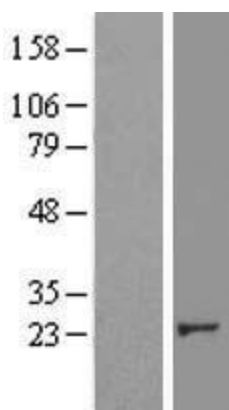
Locus ID: 1398

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
MW:	22.9 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]

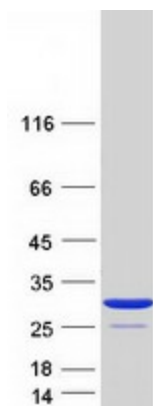
Product images:



Circular map for RC203438



Western blot validation of overexpression lysate (Cat# [LY417443]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC203438 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified CRK protein (Cat# [TP303438]). The protein was produced from HEK293T cells transfected with CRK cDNA clone (Cat# RC203438) using MegaTran 2.0 (Cat# [TT210002]).