OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for RG201701

p38 (CRK) (NM_016823) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	p38 (CRK) (NM_016823) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	p38
Synonyms:	CRKII; p38
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>RG201701 representing NM_016823
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCGGGCAACTTCGACTCGGAGGAGCGGAGTAGCTGGTACTGGGGGCGGTTGAGTCGGCAGGAGGCGG
TGGCGCTGCTGCAGGGCCAGCGGCACGGGGTGTTCCTGGTGCGGGACTCGAGCACCAGCCCCGGGGACTA
TGTGCTCAGCGTCTCAGAGAACTCGCGCGTCTCCCACTACATCATCAACAGCAGCGGCCCGCGCCCGCCG
GTGCCACCGTCGCCCGCCCAGCCTCCGCCCGGGGTGAGCCCCTCCAGACTCCGAATAGGAGATCAAGAGT
TTGATTCATTGCCTGCTTTACTGGAATTCTACAAAATACACTATTTGGACACTACAACGTTGATAGAACC
AGTTTCCAGATCCAGGCAGGGTAGTGGAGTGATTCTCAGGCAGGAGGAGGCGGAGTATGTGCGAGCCCTC
TTTGACTTTAATGGGAATGATGAGGAAGATCTTCCCTTTAAGAAAGGAGACATCTTGAGAATCCGGGACA
AGCCTGAAGAGCAGTGGTGGAATGCGGAGGACAGCGAAGGCAAGAGAGGGATGATTCCAGTCCCTTACGT
CGAGAAGTATAGACCTGCCTCCGCCTCAGTATCGGCTCTGATTGGAGGTAACCAGGAGGGTTCCCACCCA
CAGCCACTGGGTGGGCCGGAGCCTGGGCCCTATGCCCAACCCAGCGTCAACACTCCGCTCCCTAACCTCC
AGAATGGGCCCATATATGCCAGGGTTATCCAGAAGCGAGTCCCCAATGCCTACGACAAGACAGCCTTGGC
TTTGGAGGTCGGTGAGCTGGTAAAGGTTACGAAGATTAATGTGAGTGGTCAGTGGGAAGGGGAGTGTAAT
GGCAAACGAGGTCACTTCCCATTCACACATGTCCGTCTGCTGGATCAACAGAATCCCGATGAGGACTTCA
GC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

View online »

Protein Sequence:

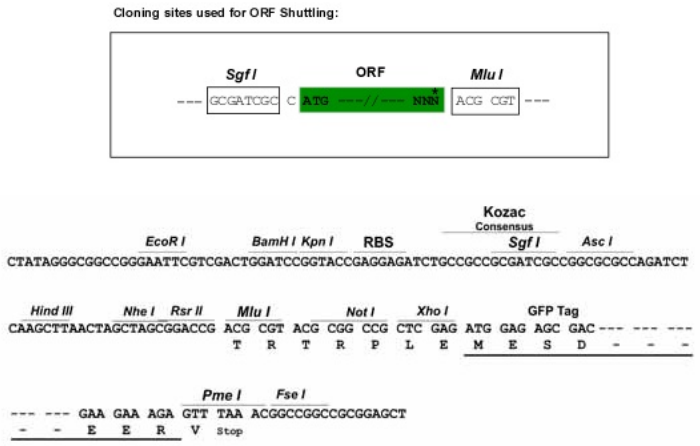
>RG201701 representing NM_016823
Red=Cloning site Green=Tags(s)

MAGNFDSEERSSWYWGRLSRQEAVALLQGQRHGVFLVRDSSTSPGDYVLSVSENSRVSHYIINSSGPRPP
VPPSPAQPPPGVSPSRLRIGDQEFDSLPALLEFYKIHYLDTTTLIEPVSRSRQGSGVILRQEEAEYVRAL
FDFNGNDEEDLPFKKGDILRIRDKPEEQWWNAEDSEGKRGMIPVPYVEKYRPASASVSALIGGNQEGSHP
QPLGGPEPGPYAQPSVNTPLPNLQNGPIYARVIQKRVPNAYDKTALALEVGELVKVTKINVSGQWEGECN
GKRGHFPFTHVRLLDQQNPDEDFS

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_016823

ORF Size: 912 bp

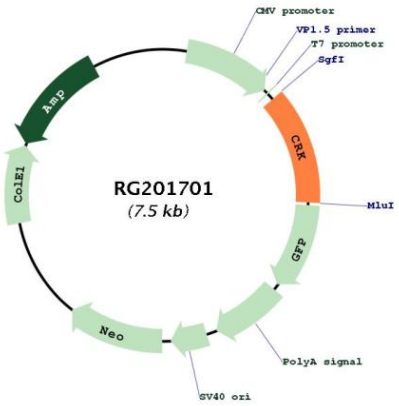
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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_016823.2, NP_058431.2
RefSeq Size:	2415 bp
RefSeq ORF:	915 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:	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 RG201701