

Product datasheet for **MR228496**

Crk (NM_001277219) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Crk (NM_001277219) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Crk
Synonyms: c-Crk; Cr; Crk-I; Crk-II; Crk-III; Crk3; CrkIII; Crko; p38
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >MR228496 representing NM_001277219
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCGGGCAACTTCGACTCGGAGGAGCGGAGTAGCTGGTACTGGGGCCGCTGAGCCGGCAGGAGGGCGG
 TGGCGCTATTGCAGGGCCAGCGGCACGGGTGTTCTGGTGGGACTCGAGCACCAGCCCCGGGACTA
 TGTGCTTAGCGTCTCCGAAAACCTCGCGCTCTCCACTACATCATCAACAGCAGCGGCCCGCCCTCCA
 GTGCCTCCGTCGCCCGCTCAGCCTCCGCGGGAGTGAGTCCCTCCAGGCTCCGAATAGGAGATCAAGAAT
 TTGATTCAATGCCTGCTTTACTGGAATTCTACAAAATACACTATTTGGACTACAAATTGATAGAACC
 AGTGGCCAGATCAAGGCAGGGTAGTGGAGTGATTCTCAGGCAGGAGGAGGCAGAGTATGTGCGGGCCCTC
 TTTGACTTTAATGGGAATGATGAAGAAGATCTTCCCTTTAAGAAAGGAGACATCTGAGAATCCGGGATA
 AGCCTGAAGAGCAGTGGTGAATGCAGAGGACAGCGAAGGAAAGAGGGGATGATTCTGTCCCTTACGT
 GGAGAAGTATAGACCTGCCTCCGCTCAGTATCGGCTCTGATTGGAGGTCGG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR228496 representing NM_001277219
 Red=Cloning site Green=Tags(s)

MAGNFDSEERSSWYWGRLSRQEAVALQLQQRHGVLVRSSTSPGDYVLSVSENSRVSHYIINSSGPRPP
 VPPSPAQPPPGVSPSRLRIGDQEFDSLPALEFYKIHLYLDTTTLIEPVARSRQSGVILRQEEAEVYRAL
 FDFNGNDEEDLPFKKGDILRIRDKPEEQWNAEDSEGKRMIPVPYVEKYRPASASVSALIGGR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

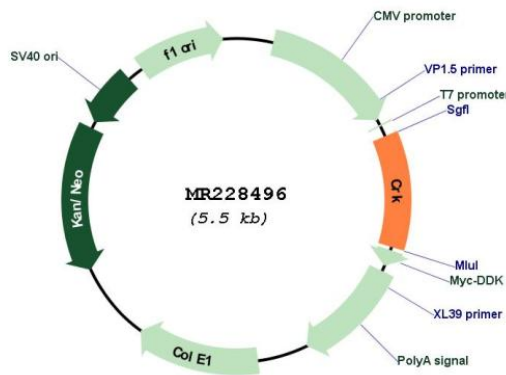


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Cloning Scheme:



Plasmid Map:



ACCN: NM_001277219

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_001277219.1](#), [NP_001264148.1](#)

RefSeq Size: 5835 bp

RefSeq ORF: 615 bp

Locus ID: 12928

Cytogenetics: 11 45.92 cM

MW: 23.3 kDa

Gene Summary: This gene is part of a family of adapter proteins that mediate formation of signal transduction complexes in response to extracellular stimuli, such as growth and differentiation factors. Protein-protein interactions occur through the SH2 domain, which binds phosphorylated tyrosine residues, and the SH3 domain, which binds proline-rich peptide motifs. These interactions promote recruitment and activation of effector proteins to regulate cell migration, adhesion, and proliferation. In mouse this protein is essential for embryonic development. Alternatively spliced transcripts encoding different isoforms with distinct biological activity have been described. [provided by RefSeq, Mar 2013]