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Product datasheet for MR204260

Crk (NM_133656) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Crk (NM_133656) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Crk
Synonyms:	c-Crk; Cr; Crk-I; Crk-II; Crk-III; Crk3; CrkIII; Crko; p38
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>MR204260 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCGGGCAACTTCGACTCGGAGGAGCGGAGTAGCTGGTACTGGGGCCGCCTGAGCCGGCAGGAGGCGG
TGGCGCTATTGCAGGGCCAGCGGCACGGGGTGTTCCTGGTGCGGGACTCGAGCACCAGCCCCGGGGACTA
TGTGCTTAGCGTCTCCGAAAACTCGCGCGTCTCCCACTACATCATCAACAGCAGCGGCCCGCGCCCTCCA
GTGCCTCCGTCGCCCGCTCAGCCTCCGCCGGGAGTGAGTCCCTCCAGGCTCCGAATAGGAGATCAAGAAT
TTGATTCATTGCCTGCTTTACTGGAATTCTACAAAATACACTATTTGGACACTACAACATTGATAGAACC
AGTGGCCAGATCAAGGCAGGGTAGTGGAGTGATTCTCAGGCAGGGGGAGGCAGAGTATGTGCGGGCCCTC
TTTGACTTTAATGGGAATGATGAAGAAGATCTTCCCTTTAAGAAAGGAGACATGCTGAGAATCCGGGATA
AGCCTGAAGAGCAGTGGTGGAATGCAGAGGACAGCGAAGGAAAGAGGGGGATGATTCCTGTCCCTTACGT
GGAGAAGTATAGACAGGCCTCCGCCTCAGTATCGGCTCTGATTGGAGGTAACCAGGAGGGTTCCCACCCA
CAGCCACTGGGTGGGCCGGAGCCTGGGCCCTATGCCCAACCCAGCGTCAACACTCCGCTCCCTAACCTCC
AGAATGGGCCCATTTATGCCAGGGTTATCCAGAAGCGAGTCCCTAATGCCTACGACAAGACAGCCTTGGC
TTTGGAGGTCGGTGAGCTGGTAAAGGTTACGAAGATTAATGTGAGTGGTCAGTGGGAAGGGGAGTGTAAT
GGCAAACGAGGTCACTTCCCATTCACACATGTCCGTCTGCTGGATCAACAGAATCCCGATGAGGACTTCA
GC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

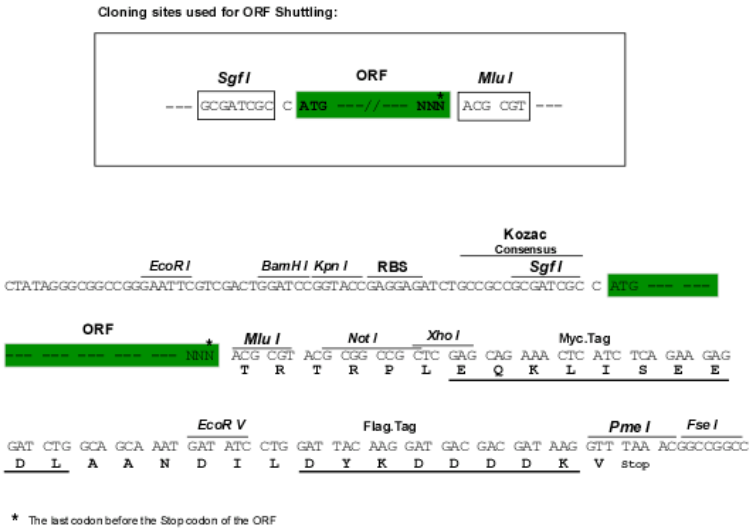
>MR204260 protein sequence
Red=Cloning site Green=Tags(s)

MAGNFDSEERSSWYWGRLSRQEAVALLQGQRHGVFLVRDSSTSPGDYVLSVSENSRVSHYIINSSGPRPP
VPPSPAQPPPGVSPSRLRIGDQEFDSLPALLEFYKIHYLDTTTLIEPVARSRQGSGVILRQGEAEYVRAL
FDFNGNDEEDLPFKKGDMLRIRDKPEEQWWNAEDSEGKRGMIPVPYVEKYRQASASVSALIGGNQEGSHP
QPLGGPEPGPYAQPSVNTPLPNLQNGPIYARVIQKRVPNAYDKTALALEVGELVKVTKINVSGQWEGECN
GKRGHFPFTHVRLLDQQNPDEDFS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_133656

ORF Size: 915 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_133656.1

RefSeq Size: 6005 bp

RefSeq ORF: 915 bp

Locus ID: 12928

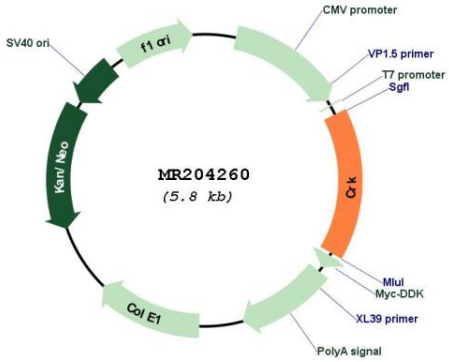
UniProt ID: Q64010

Cytogenetics: 11 45.92 cM

MW: 33.8 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]

Product images:



Circular map for MR204260