

Product datasheet for MC226285

Crk (NM_001277219) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Crk (NM_001277219) Mouse Untagged Clone
Tag:	Tag Free
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)
Fully Sequenced ORF:	>MC226285 representing NM_001277219 Red=Cloning site Blue=ORF Orange=Stop codon

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGGGCAACTTCGACTCGGAGGAGCGGAGTAGCTGGTACTGGGGCCGCCTGAGCCGGCAGGAGGCGG
TGGCGCTATTGCAGGGCCAGCGGCACGGGGTGTTCCTGGTGCGGGACTCGAGCACCAGCCCCGGGGACTA
TGTGCTTAGCGTCTCCGAAAACTCGCGCGTCTCCCACTACATCATCAACAGCAGCGGCCCGCCCTCCA
GTGCCTCCGTCGCCCCGTCAGCCTCCGCCGGGAGTGAGTCCCTCCAGGCTCCGAATAGGAGATCAAGAAT
TTGATTCAATGCCTGCTTTACTGGAATTCTACAAAATACACTATTTGGACACTACAACATTGATAGAACC
AGTGGCCAGATCAAGGCAGGGTAGTGGAGTGATTCTCAGGCAGGAGGAGGCAGAGTATGTGCGGGCCCTC
TTTGACTTTAATGGGAATGATGAAGAAGATCTTCCCTTTAAGAAAGGAGACATCCTGAGAATCCGGGATA
AGCCTGAAGAGCAGTGGTGAATGCAGAGGACAGCGAAGGAAAGAGGGGGATGATTCCTGTCCCTTACGT
GGAGAAGTATAGACCTGCCTCCGCCTCAGTATCGGCTCTGATTGGAGGTCGGTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	Sgfl-MluI
ACCN:	NM_001277219
Insert Size:	615 bp



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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:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
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_001277219.1, NP_001264148.1</u>
RefSeq Size:	5835 bp
RefSeq ORF:	615 bp
Locus ID:	12928
Cytogenetics:	11 45.92 cM
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (1) encodes the shorter isoform 1 (also known as Crkl). Isoform 1 (Crkl) contains the SH2 domain and the N-terminal SH3 domain, both of which are proposed to be crucial for development. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>