

Product datasheet for **MC225543**

Crk (NM_001277221) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Crk (NM_001277221) Mouse Untagged Clone
Tag: Tag Free
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
Fully Sequenced ORF: >MC225543 representing NM_001277221
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGGCGGGCAACTTCGACTCGGAGGAGCGGAGTAGCTGGTACTGGGGCCGCTGAGCCGGCAGGAGGCGG
TGGCGCTATTGCAGGGCCAGCGGCACGGGTGTTCTGGTGGGACTCGAGCACCAGCCCCGGGACTA
TGTGCTTAGCGTCTCGAAAACTCGCGCTCTCCACTACATCATCAACAGCAGCGGCCCGCCCTCCA
GTGCCTCCGTCGCCGCTCAGCCTCCGCGGGTGGTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-MluI
ACCN: NM_001277221
Insert Size: 249 bp

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.



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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_001277221.1, NP_001264150.1</u>
RefSeq Size:	5469 bp
RefSeq ORF:	249 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 (3) lacks an alternate, in-frame exon in the coding region compared to variant 1. The encoded isoform (3) is shorter than isoform 1 (Crkl). Isoform 3 does not have a complete SH2 domain and lacks an SH3 domain, both of which are found in isoform 1. Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>