

## Product datasheet for **MR227754**

### Crk (NM\_001277221) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Crk (NM\_001277221) 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:** >MR227754 representing NM\_001277221  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

**ATGGCGGGCAACTTCGACTCGGAGGAGCGGAGTAGCTGGTACTGGGGCCGCTGAGCCGGCAGGAGGCGG**  
**TGGCGCTATTGCAGGGCCAGCGGCACGGGGTGTTCCTGGTGCGGGACTCGAGCACCAGCCCCGGGACTA**  
**TGTGCTTAGCGTCTCCGAAACTCGCGCTCTCCACTACATCATCAACAGCAGCGGCCCGCCCTCCA**  
**GTGCCTCCGTCGCCCGCTCAGCCTCCGCGGGTCCG**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR227754 representing NM\_001277221  
Red=Cloning site Green=Tags(s)

MAGNFDSEERSSWYWGRLSRQEAVALLQGQRHGVFLVRDSSSTSPGDYVLSVSENSRVSHYIINSSGPRPP  
VPPSPAQPPPGR

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** Sgfl-MluI



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<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u>NM_001277221.1, NP_001264150.1</u>
<b>RefSeq Size:</b>	5469 bp
<b>RefSeq ORF:</b>	249 bp
<b>Locus ID:</b>	12928
<b>Cytogenetics:</b>	11 45.92 cM
<b>MW:</b>	9.5 kDa
<b>Gene Summary:</b>	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]