

Product datasheet for **MR227889**

Crkl (NM_001277231) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Crkl (NM_001277231) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Crkl
Synonyms: 1110025F07Rik; AA589403; AI325100; Cr; Crkol; snoop
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >MR227889 representing NM_001277231
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGTCCTCGCCAGGTTTGATTCTTCAGACCGCTCTGCCTGGTACATGGGGCCAGTGACTCGCCAGGAGG
CGCAGACTCGTCTCCAAGGCCAGCGCCATGGCATGTTCCCTAGTCCGGGACTCATCTACCTGCCCCGGGA
CTATGTACTGTCCGTGTCCGAGAACTCGCGTGTCTCGCACTACATCAACTCCCTGCCAACCCGCCG
TTTAAGATCGGGACCAGGAGTTTGACCATTTGCCGGCCTTGTTAGAGTTCTACAAGATCCACTACCTGG
ACACTACCACCTTAATCGAACCGCGCCAGGTTGGTGACATTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR227889 representing NM_001277231
Red=Cloning site Green=Tags(s)

MSSARFDSSDRSAWYMGPVTRQEAQTRLQQRHGMFLVRSSTCPGDYVLSVSENSRVSHYIINSLPNRR
FKIGDQEFDHLPALLEFYKIHLYLDTTTLIEPAPRLVTL

TRTRPLEQK**L**ISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

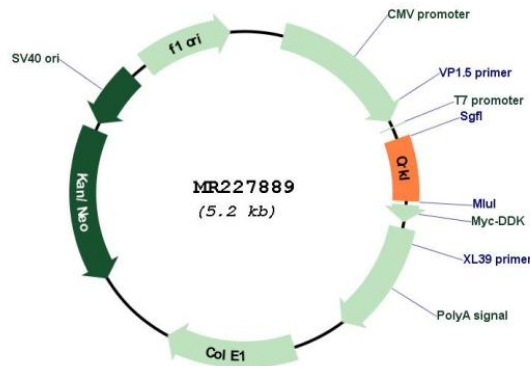


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Cloning Scheme:



Plasmid Map:



ACCN: NM_001277231

ORF Size: 324 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:	<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_001277231.1</u> , <u>NP_001264160.1</u>
RefSeq Size:	4584 bp
RefSeq ORF:	327 bp
Locus ID:	12929
UniProt ID:	<u>P47941</u>
Cytogenetics:	16 A3
MW:	12.9 kDa
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 certain mouse genetic backgrounds this protein is essential for embryonic development. It is important for neural crest cell differentiation and survival and is proposed to play an important role in transducing the oncogenic signal of Bcr/Abl. Deletion of this gene in mouse mimics the phenotype of DiGeorge/velocardiofacial syndrome in human. Alternative splicing results in multiple transcript variants that encode different protein isoforms. [provided by RefSeq, Mar 2013]</p>