

Product datasheet for **RR201041**

Crat (NM_001004085) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Crat (NM_001004085) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Crat
Synonyms:	MGC94385
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RR201041 representing NM_001004085
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

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Protein Sequence:

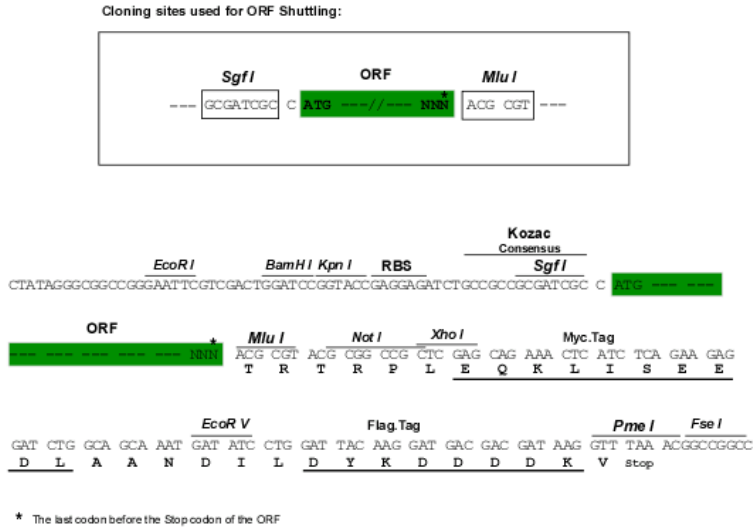
>RR201041 representing NM_001004085
 Red=Cloning site Green=Tags(s)

MLAFAARTVVKPLGLLKPSSLMKVSGRFKAHQDALPRLPVPPLQQSLDHYLKALQPIVSEEEWAHTKQLV
 DEFQTSQVGERLQKGLERRAKKMENWLSEWVKLQFRQPVVYSSPGVLLPKQDFMDLQGGRLFAA
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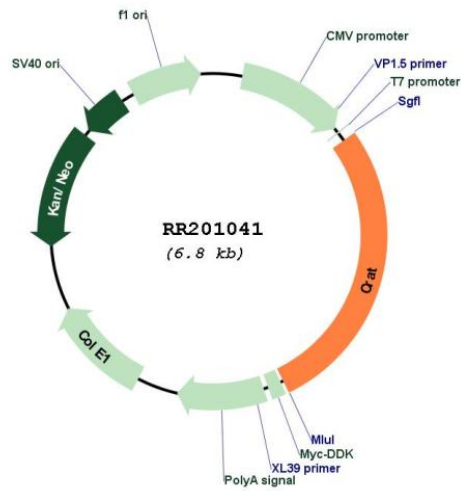
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001004085

ORF Size: 1878 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:	NM_001004085.2 , NP_001004085.1
RefSeq Size:	2757 bp
RefSeq ORF:	1881 bp
Locus ID:	311849
UniProt ID:	Q704S8
Cytogenetics:	3p12
MW:	70.8 kDa
Gene Summary:	catalyzes the reversible transfer of an acyl group from acyl-CoA thioesters to carnitine; key enzyme in mitochondrial and endoplasmic reticulum metabolic pathways [RGD, Feb 2006]