

Product datasheet for **RC213898**

CrkRS (CDK12) (NM_016507) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CrkRS (CDK12) (NM_016507) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CrkRS
Synonyms:	CRK7; CRKR; CRKRS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC213898 representing NM_016507. Blue=ORF Red=Cloning site Green=Tag(s)

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Protein Sequence: >Peptide sequence encoded by RC213898
 Blue=ORF Red=Cloning site Green=Tag(s)

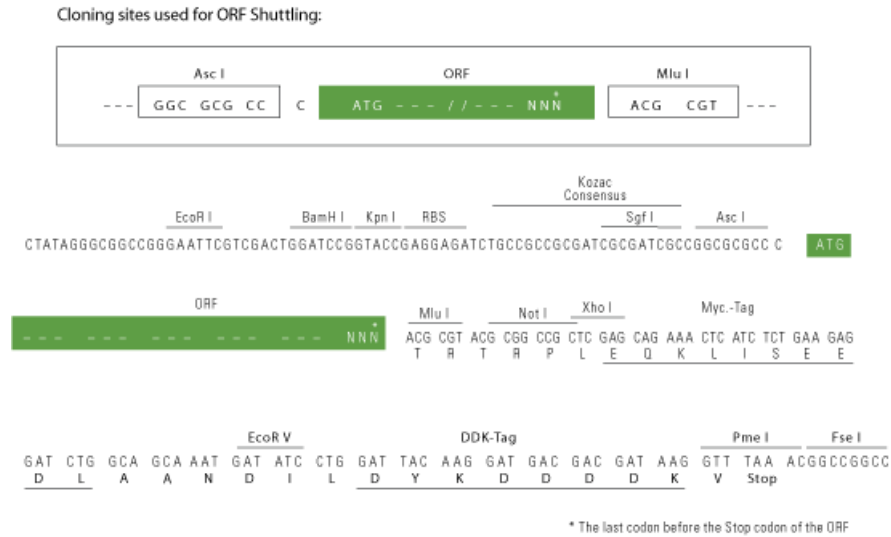
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Chromatograms: https://cdn.origene.com/chromatograms/mk8009_e01.zip

Restriction Sites: AscI-MluI

Cloning Scheme:

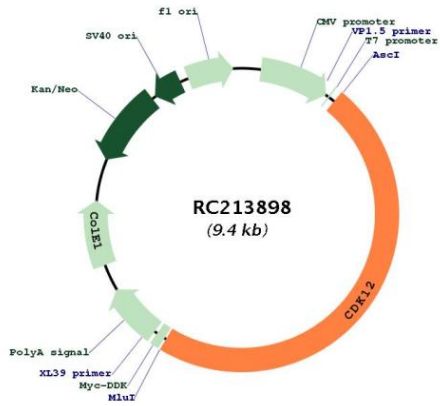


ACCN: NM_016507

ORF Size: 4470 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_016507.4
RefSeq Size:	5515 bp
RefSeq ORF:	4473 bp
Locus ID:	51755
UniProt ID:	Q9NYV4
Cytogenetics:	17q12
Domains:	pkinase, TyrKc, S_TKc
Protein Families:	Druggable Genome, Protein Kinase
MW:	164.2 kDa
Gene Summary:	Cyclin-dependent kinase that phosphorylates the C-terminal domain (CTD) of the large subunit of RNA polymerase II (POLR2A), thereby acting as a key regulator of transcription elongation. Regulates the expression of genes involved in DNA repair and is required for the maintenance of genomic stability. Preferentially phosphorylates 'Ser-5' in CTD repeats that are already phosphorylated at 'Ser-7', but can also phosphorylate 'Ser-2'. Required for RNA splicing, possibly by phosphorylating SRSF1/SF2. Involved in regulation of MAP kinase activity, possibly leading to affect the response to estrogen inhibitors.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC213898