

## Product datasheet for **RC208324**

### **KIAA0427 (CTIF) (NM\_014772) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	KIAA0427 (CTIF) (NM_014772) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CTIF
Synonyms:	Gm672; KIAA0427
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**ORF Nucleotide Sequence:**

>RC208324 representing NM\_014772  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGAAAACTCCTCTGCAGCATCAGCCTCCTCGGAGGCAGGGAGCAGCCGCTCCCAGGAGATCGAGGAGC  
 TGGAGCGCTTCATCGACAGCTACGTGCTGGAGTACCAGGTGCAGGGGCTGCTGGCTGACAAGACGGAGGG  
 TGATGGCGAGAGCGAGAGACCCAGTCCCACATCTCCAGTGGACAGCGGACTGCAGCGAACCGCTGGAC  
 AGCAGCTGTTCTCTCCCGAGGGCGAGCCCCCACAGCAGAATGGCAGCAAAGACAACCTCTGGACA  
 TGCTGGGCACGGACATCTGGGCGCCAACACCTTCGATTCTCAGTGGTCCACCTGGGACCTGCAGCC  
 GGAAAAGCTGGACTTCACCCAGTTCACCCGAAAGTCCGACACACGCCAAAGCAGCCCTGCCACACATC  
 GACCGCGAAGGGTGTGGCAAAGGAAGTGAAGATGGGGATGGCATCAACCTGAATGACATCGAGAAGG  
 TCCTTCCAGCCTGGCAGGGCTACCACCCGATGCCCATGAAGTGGAGATCGCACACCAAGAAGCTGTT  
 CCGCAGGAGGAGAAATGATCGAAGGCGGCAGCAGAGACCTCCGGGGGCAACAAGCCCCAACAGCATGGT  
 GACCACCAGCCAGGCAGTGCCAAACACAACAGGGACCACCAGAAATCCTACCAGGGGGGCTCAGCACCCC  
 ACCCCTCAGGGAGGCCACTCACCATGGCTACAGCCAGAACCAGCGCTGGCACCATGGCAACATGAAGCA  
 CCCACCAGGCGACAAGGGGGAGGCAGGCGCACACCCGAATGCCAAAGAGACCATGACCATCGAGAACCCA  
 AAAGTGGAGGACTGCAGGGGACACCGGGCACAGCAGCCTTGAGGCCCCCCGACGCCCTGACACCTGG  
 CCCCAGTGGCTTCTGAGCGGCTGCCCCACAGCAGTCAAGGGGGCCAGAGGTTGAGACAAAACGTAAGA  
 CAGTATTCTTCCGAGCGCATCGGGAGCGGCCAAAAATACCCTGCTCCAGTCTTCAAAGACAGACTG  
 CGGCGAAGGCTAAAGAAAAGGATGAAGTGGCCGTGGAGACGACCACTCCCAGCAGAACAAGATGGACA  
 AGCTGATCGAGATCCTGAACAGCATGCGGAACAACAGCAGCGAGTGGACACCAAGCTCACACCTTCAT  
 GGAGGAGGCCAGAACTCCACCAACTCCGAGGAGATGCTGGGCGAGATCGTGCACACAATCTACCAGAAG  
 GCTGTGTCGACCGCAGCTTCGCTTACCCGCTGCCAAGCTCTGCGACAAGATGGCGCTCTTATGTTGG  
 AGGGGACCAAGTCCGGAGCCTGCTCCTCAACATGCTGCAGAAGGACTTACGGTGCAGGAGGAGCTGCA  
 GCAGCAGGACGTGGAGCCTGGCTGGGCTTATCACCTTCTGTGCGAGGTCTTCGGCACCATGCGCAGC  
 AGCACAGGCGAGCCCTCCGTGTGCTCGTGTGCCCATCTACACCTGCCTCAGGGAGCTCTTGAATCTC  
 AGGATGTGAAGGAAGATGCTGCTCTTGTGCTCTATGGAGTGCAGAGTACAGGCCGGTCTGGAGGA  
 ACAGCTGCCTGAGATGATGACAGAGCTCCTGGCCAGCGCACGGGACAAGATGCTGTGCCCTCGGAGTCC  
 ATGCTGACCCGGTCTGCTCCTAGAGGTATCGAGCTCCACGCTAACAGCTGGAACCTCTGACGCCCC  
 CCATCACGCACTACTACAACAGAACCATCCAGAACTGACAGCC

**ACGCGT**ACGCGGCGGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC208324 representing NM\_014772  
 Red=Cloning site Green=Tags(s)

MENSSAASASSEAGSSRSQEIIEELERFIDSYVLEYVQVQLLADKTEGDGESERTQSHISQWTADCSEPLD  
 SSCSFSRGRAPPQNGSKDNLDMGLTDIWAANTFDSFSGATWDLQPEKLDFTQFHRKVRHTPKQPLPHI  
 DREGCGKGLLEDGGINLNDIEKVLPAWQGYHPMPHEVEIAHTKKLFRRRNRDRRQQRPPGGNKPQQHG  
 DHQPGSAKHNRDHQKSYQGSAPHPSGRPTHGYSQNRWHHGNMKHPPGDKGEAGHRNAKETMTIENP  
 KLEDTAGDTGHSSLEAPRSPDTLAPVASERLPPQQSGGPEVETKRKDSILPERIGERPKITLLQSSKDRL  
 RRRLEKKEDEVAVETTTTPQNKMDKLEILNSMRNNSDVTKLTFMEEAQNSTNSEMLGEIVRTIYQK  
 AVSDRSFAFTAACLCDKMLFMVEGTFKFRSLLNMLQKDFTVREELQQQDVERWLGFIIFLCEVFGTMRS  
 STGEPFRVLVCPITYTCLRELLQSQDVKEDAVLCCSMELQSTGRLLLEEQLPEMMTELLASARDKMLCPSES  
 MLTRSLLEVIELHANSWNPLTPPITQYNNRTIQKLTAA

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

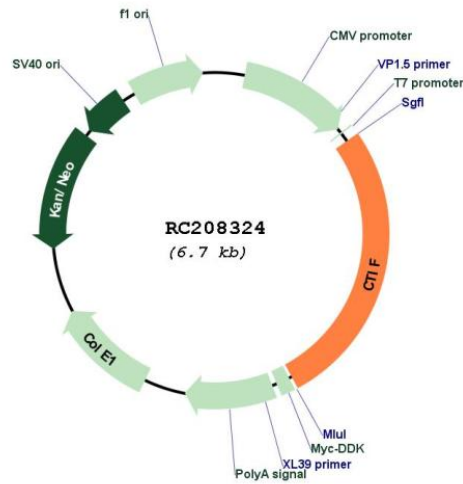
**Restriction Sites:**

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_014772

ORF Size: 1794 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<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>	<a href="#">NM_014772.3</a>
<b>RefSeq Size:</b>	5748 bp
<b>RefSeq ORF:</b>	1797 bp
<b>Locus ID:</b>	9811
<b>UniProt ID:</b>	<a href="#">O43310</a>
<b>Cytogenetics:</b>	18q21.1
<b>MW:</b>	67.6 kDa
<b>Gene Summary:</b>	CTIF is a component of the CBP80 (NCBP1; MIM 600469)/CBP20 (NCBP2; MIM 605133) translation initiation complex that binds cotranscriptionally to the cap end of nascent mRNA. The CBP80/CBP20 complex is involved in a simultaneous editing and translation step that recognizes premature termination codons (PTCs) in mRNAs and directs PTC-containing mRNAs toward nonsense-mediated decay (NMD). On mRNAs without PTCs, the CBP80/CBP20 complex is replaced with cytoplasmic mRNA cap-binding proteins, including EIF4G (MIM 600495), and steady-state translation of the mRNAs resumes in the cytoplasm (Kim et al., 2009 [PubMed 19648179]).[supplied by OMIM, Dec 2009]