

Product datasheet for **RG208324**

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:	TurboGFP
Symbol:	CTIF
Synonyms:	Gm672; KIAA0427
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG208324 representing NM_014772
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAAAACTCCTCTGCAGCATCAGCCTCCTCGGAGGCAGGGAGCAGCCGCTCCCAGGAGATCGAGGAGC
 TGGAGCGCTTCATCGACAGCTACGTGCTGGAGTACCAGGTGCAGGGGCTGCTGGCTGACAAGACGGAGGG
 TGATGGCGAGAGCGAGAGACCCAGTCCCACATCTCCAGTGGACAGCGGACTGCAGCGAACCGCTGGAC
 AGCAGCTGTTCTCTCCCGAGGGCGAGCCCCCACAGCAGAATGGCAGCAAAGACAACCTCTGGACA
 TGCTGGGCACGGACATCTGGGCGCCAACACCTTCGATTCCTTCAGTGGTCCACCTGGGACCTGCAGCC
 GAAAAAGCTGGACTTCACCCAGTTCACCCGAAAGTCCGACACACGCCAAAGCAGCCCTGCCACACATC
 GACCGCAAGGGTGTGGCAAAGGAAGCTGGAAGATGGGGATGGCATCAACCTGAATGACATCGAGAAGG
 TCCTTCCAGCCTGGCAGGGCTACCACCCGATGCCCATGAAGTGGAGATCGCACACCAAGAAGCTGTT
 CCGCAGGAGGAGAAATGATCGAAGCGGCAGCAGAGACCTCCGGGGGCAACAAGCCCCAACAGCATGGT
 GACCACCAGCCAGGCAGTGCCAAACACAACAGGGACCACCAGAAATCCTACCAGGGGGGCTCAGCACCCC
 ACCCCTCAGGGAGGCCACTCACCATGGCTACAGCCAGAACCAGCGCTGGCACCATGGCAACATGAAGCA
 CCCACCAGGCGACAAGGGGGAGGCAGGCGCACACCCGCAATGCCAAAGAGACCATGACCATCGAGAACCCA
 AAAGTGGAGGACTGCAGGGGACACCGGGCACAGCAGCCTTGAGGCCCCCCGCAGCCCTGACACCCTGG
 CCCCAGTGGCTTCTGAGCGGCTGCCCCACAGCAGTCAAGGGGGCCAGAGGTTGAGACAAAACGTAAGA
 CAGTATCTTCCGAGCGCATCGGGAGCGGCCAAAATACCTGCTCCAGTCTTCAAAGACAGACTG
 CGGCGAAGGCTAAAGAAAAGGATGAAGTGGCCGTGGAGACGACCACTCCCAGCAGAACAAGATGGACA
 AGCTATCGAGATCCTGAACAGCATCGGAACAACAGCAGCGCAGTGGACACCAAGCTCACACCTTCAT
 GGAGGAGGCCAGAACTCCACCAACTCCGAGGAGATGCTGGGCGAGATCGTGCGCAACTCTACCAGAAG
 GCTGTGTCGACCGCAGCTTCGCTTCCAGCCTGCAAGCTCTGCGACAAGATGGCGCTCTTATGTTGG
 AGGGGACCAAGTCCGGAGCCTGCTCCTCAACATGCTGCAGAAGGACTTACGGTGCAGGAGGAGCTGCA
 GCAGCAGGACGTGGAGCCTGGCTGGGCTTATCACCTTCTGTGCGAGGTCTTCGGCACCATGCGCAGC
 AGCACAGGCGAGCCCTCCGTGTGCTCGTGTGCCCATCTACACCTGCCTCAGGGAGCTCTTGAATCTC
 AGGATGTGAAGGAAGATGCTGCTCTTGTGCTCTATGGAGTGCAGAGTACAGGCCGGTCTGGAGGA
 ACAGCTGCCTGAGATGATGACAGAGCTCCTGGCCAGCGCACGGGACAAGATGCTGTGCCCTCGGAGTCC
 ATGCTGACCCGGTCTGCTCTAGAGGTATCGAGCTCCACGCTAACAGCTGGAACCTCTGACGCCCC
 CCATCACGCACTACTACAACAGAACCATCCAGAACTGACAGCC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG208324 representing NM_014772
 Red=Cloning site Green=Tags(s)

MENSSAASASSEAGSSRSQEIIEELERFIDSYVLEYQVQGLLADKTEGDGESERTQSHISQWTADCSEPLD
 SCSFSRGRAPPQNGSKDNSLMLGTDIWAANTFDSFSGATWDLQPEKLDFTQFHRKVRHTPKQPLPHI
 DREGCGKGLLEDGDGINLNDIEKVLPAWQGYHPMPHEVEIAHTKKLFRRRRNDRRRQQRPPGGNKPQQHG
 DHQPGSAKHNRDHQKSYQGSAPHSGRPTHGYSQNRWVHGNMKHPPGDKGEAGHRNAKETMTIENP
 KLEDTAGDTGHSSLEAPRSPDTLAPVASERLPPQQSGGPEVETKRKDSILPERIGERPKITLLQSSKDRL
 RRRLEKKEDEVAVETTTTPQNKMDKLEILNSMRNNSDSDVTKLTFMEEAQNSTNSEMLGEIVRTIYQK
 AVSDRSFAFTAALKCDKMALFMVEGTFKFRSLLNMLQKDFTVREELQQQDVERWLGFIITFLCEVFGTMRS
 STGEPFRVLVCPITYTCLRELLQSQDVKEDAVLCCSMELQSTGRLLLEEQLPEMMTELLASARDKMLCPSES
 MLTRSLLEVEIELHANSWNPLTPPITQYYNRTIQKLTA

TRTRPLE – GFP Tag – V

Restriction Sites:

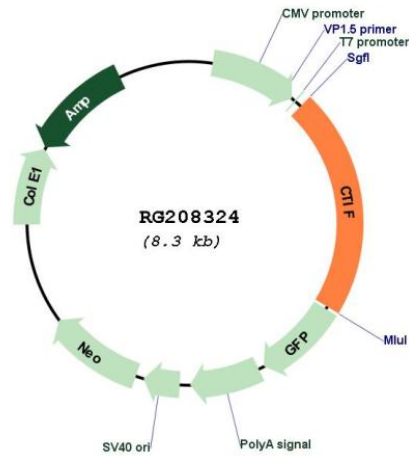
Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_014772
 ORF Size: 1794 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_014772.3
RefSeq Size:	5748 bp
RefSeq ORF:	1797 bp
Locus ID:	9811
UniProt ID:	O43310
Cytogenetics:	18q21.1
Gene Summary:	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]