

## Product datasheet for **RC214798**

### **CUL4A (NM\_001008895) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	CUL4A (NM_001008895) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CUL4A
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC214798 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCGGACGAGGCCCGCGGAAGGGCAGCTTCTCGGCGCTCGTGGGCCACCAACGGCCTCACCAAGC  
 CCGCGGCCCTGGCCGCCCGCCGCAAGCCGGGGGCGCGGGCGCTCCAAGAAGCTGGTCATCAAGAA  
 CTTCCGAGACAGACCTCGGCTGCCGACAACACTACAGCAGGACACGTGGCGGAAGCTGCACGAGGCGGTG  
 CGGGCCGTGCAGAGCAGCACCTCCATCAGGTACAACCTCGAGGAGCTCTACCAGGCTGTGAAAAATCTCT  
 GTTCTCACAAAGTCTCCCAATGCTCTACAAGCAACTGCGTCAGGCTGTGAAGACCAGTCCAGGCACA  
 GATCCTCCGTTTAGAGAAGACTCACTAGATAGTGTATTTATTTTAAAGAAGATTAACACGTGCTGGCAG  
 GACCACTGCAGACAAATGATCATGATCAGAAGCATCTTCTGTTCTTGGACCGCACCTATGTGCTGCAGA  
 ACTCCACGCTGCCCTCCATCTGGGATATGGGATTAGAAGTGTGTTAGAACCCATATTATTAGTGATAAAAT  
 GGTTCCAGAGTAAAACCATTGATGGAATCCTACTGCTGATCGAGCGGAGAGGAGCGGCGAGGCCGTGGAC  
 CGGAGCCTGTTGCGGAGCCTCCTGGGCATGCTGTCTGACCTGCAGGTGTATAAAGATTCATTTGAACTGA  
 AATTTTTGGAAGAGACTAATTGCTTATATGCTGCCGAAGGCCAAAGGTTAATGCAGGAAAGAGAGTTCC  
 AGAATATCTTAACCATGTAAGTAAACGCTTAGAGGAAGAGGGAGACAGAGTAATCACTTACTTGGACCAC  
 AGCACACAGAAACCCTGATTGCTTGTGTGGAGAAACAGCTATTAGGAGAACATTTAACAGCAATTTCTGC  
 AGAAAGGGCTCGACCACTTACTGGATGAGAACAGAGTGCCCGACCTCGCACAGATGTACCAGCTGTTTCAG  
 CCGGGTGAGGGGCGGCAGCAGGCGCTGCTGCAGCACTGGAGCGAGTACATCAAGACTTTTGAACACGC  
 ATCGTAATCAATCCTGAGAAAGACAAAGACATGGTCCAAGACCTGTTGGACTTCAAGGACAAGGTGGACC  
 ACGTGATCGAGGTCTGCTTCCAGAAGAATGAGCGGTTCTGTCACCTGATGAAGGAGTCTTTGAGACGTT  
 CATCAACAAGAGACCCAACAAGCCTGCAGAAGTATCGCAAAGCATGTGGATTCAAAGTTAAGAGCAGGC  
 AACAAAGAAGCCACAGACGAGGAGCTGGAGCGGACGTTGGACAAGATCATGATCCTGTTCAAGTTTATCC  
 ACGGTAAGATGTCTTTGAAGCATTTTATAAAAAAGATTTGGCAAAAAGACTCCTTGTTGGGAAAAGTGC  
 CTCAGTCGATGCTGAAAAGTCTATGTTGTCAAAGCTCAAGCATGAGTGCGGTGCAGCCTTACCAGCAAG  
 CTGGAAGGCATGTTCAAGGACATGGAGCTTTCGAAGGACATCATGGTTCATTTCAAGCAGCATATGCAGA  
 ATCAGAGTGACTCAGGCCCTATAGACCTCACAGTGAACATACTCACAATGGGCTACTGGCCAACATACAC  
 GCCCATGGAAGTGCACTTAACCCAGAAATGATTAAGTTCAGGAAGATTTAAGGCATTTTATCTTGGAA  
 AAGCACAGTGGTCGAAAACCTTCAAGTGGCAAACCTTTGGGACATGCTGTTTTAAAAGCGGAGTTTAAAG  
 AAGGGAAGAAGGAATCCAGGTGCCCTTCCAGACACTGGTGCCTCATGTTCAACGAGGGAGATGG  
 CTTCCAGCTTTGAGGAGATAAAAATGGCCACGGGATAGAGGATAGTGAATTGCGCAGAACGCTGCAGTCC  
 CTGGCCTGTGGCAAAGCACGTGTGCTGATTAAGTCCCAAAGGAAAGGAAGTGGAAAGTGGAGACAAGT  
 TCATTTTTAATGGAGAGTTCAAGCACAAGTTGTTTAGAATAAAGATCAATCAAATTCAGATGAAGGAAAC  
 TGTTGAGGAACAGGTTAGCACCCTGAGAGAGTGTTCAGGATAGACAATATCAGATTGATGCTGCTATC  
 GTCAGAATAATGAAGATGAGAAAGACTCTTGGTCATAATCTTCTAGTTTCTGAATTATATAATCAGCTGA  
 AATTTCCAGTAAAGCCTGGAGATTTGAAAAGAGAATTGAATCTCTGATAGACAGAGACTATATGGAGAG  
 AGACAAAGACAATCCGAATCAGTACCACTACGTGGCC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC214798 protein sequence  
Red=Cloning site Green=Tags(s)

MADEAPRKGFSFALSALVGRNGLTKPAALAAPAKPGGAGGSKKLVIKNFRDRPRLPDNYTQDTRWKLHEAV  
 RAVQSSTSIRYNLEELYQAVENLCSHKVSPMLYKQLRQACEDHVQAQILPFREDSLDSVLFLLKKINTCWQ  
 DHCQRQMIMIRSIFLFLDRTYVLQNSTLPSIWDMLGLELFRTHIISDKMVQSKTIDGILLIERERSGEAVD  
 RSLRLSLLGMLSLLQVYKDSFELKFLLEETNCLYAAEQRLMQEREVPEYLNHVSKRLEEEGDRVITYLDH  
 STQKPLIACVEKQLLGEHLTAILQKGLDHLLEDENRVPDLAQMYQLFSRVGGQALLQHWISEYIKTFGTA  
 IVINPEKDKDMVQDLDLDFKDKVDHVIEVCFQKNERFVNLMKESFETFINKRPNKPAELIAKHVDSKLRAG  
 NKEATDEELERTLDKIMILFRFIHGKDVFEAFYKDLAKRLLVGKSASVDAEKSMKSLKHHECGAAFTSK  
 LEGMFKDMELSKDIMVHFKQHMNQSDSGPIDLTVNILTMGYWPTYTPMEVHLTPMIKQLQEVFKAFYLG  
 KHSGRKLQWQTTLGHAVLKAEFKEGKEFQVSLFQTLVLLMFNEGDGFSFEEIKMATGIEDSELRRTLQS  
 LACGKARVLIKSPKGKEVEDGDKFIFNGEFKHKLFRIKINQIQMKETVEEQVSTTERVQDRQYQIDAAI  
 VRIMKMRKTLGHNLLVSELYNQLKFPVKPGDLKKRIESLIDRDYMERDKDNPNQYHYVA

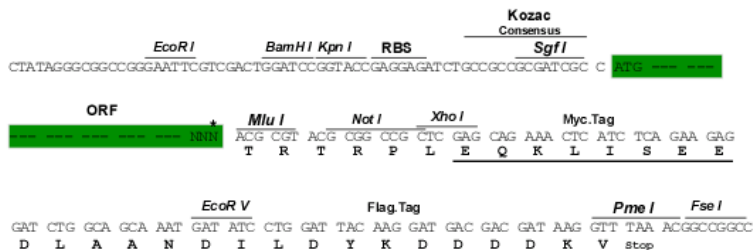
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: [https://cdn.origene.com/chromatograms/mk6078\\_h07.zip](https://cdn.origene.com/chromatograms/mk6078_h07.zip)

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



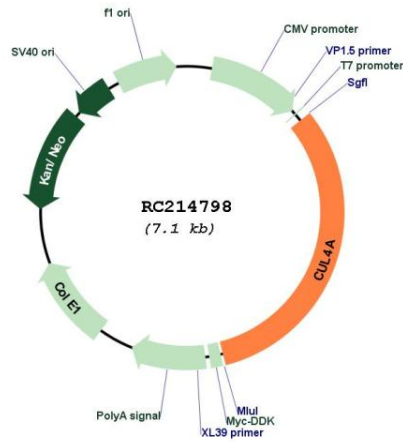
\* The last codon before the Stop codon of the ORF

ACCN: NM\_001008895

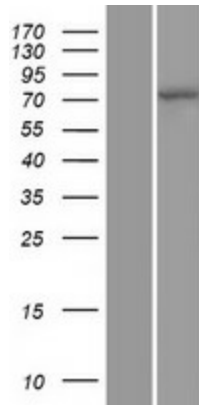
ORF Size: 2277 bp

<b>OTI Disclaimer:</b>	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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></p>
<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_001008895.4</a>
<b>RefSeq Size:</b>	3909 bp
<b>RefSeq ORF:</b>	2280 bp
<b>Locus ID:</b>	8451
<b>UniProt ID:</b>	<a href="#">Q13619</a>
<b>Cytogenetics:</b>	13q34
<b>Protein Pathways:</b>	Nucleotide excision repair, Ubiquitin mediated proteolysis
<b>MW:</b>	87.7 kDa
<b>Gene Summary:</b>	CUL4A is the ubiquitin ligase component of a multimeric complex involved in the degradation of DNA damage-response proteins (Liu et al., 2009 [PubMed 19481525]).[supplied by OMIM, Oct 2009]

Product images:



Circular map for RC214798



Western blot validation of overexpression lysate (Cat# [LY400388]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC214798 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).