

## Product datasheet for **SC117869**

### **CUL4A (NM\_003589) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	CUL4A (NM_003589) Human Untagged Clone
Tag:	Tag Free
Symbol:	CUL4A
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC117869 sequence for NM\_003589 edited (data generated by NextGen Sequencing)

```
ATGCTCTACAAGCAACTGCGTCAGGCCTGTGAAGACCACGTCCAGGCACAGATCCTTCCG
TTTAGAGAAGACTCACTAGATAGTGTTTATTTTTAAAGAAGATTAACACGTGCTGGCAG
GACCACTGCAGACAAATGATCATGATCAGAAGCATCTTCTGTTCTTGGACCGCACCTAT
GTGCTGCAGAACTCCACGCTGCCCTCCATCTGGGATATGGGATTAGAAGTGTTTAGAACC
CATATTATTAGTGATAAAATGGTTCAGAGTAAAACCATTGATGGAATCCTACTGCTGATC
GAGCGCGAGAGGAGCGGGCAGGCCGTGGACCGGAGCCTGTTGCGGAGCCTCCTGGGCATG
CTGTCTGACCTGCAGGTGTATAAAGATTCATTTGAACTGAAATTTTTGGAAGAGACTAAT
TGCTTATATGCTGCCAAGGCCAAAGGTTAATGCAGGAAAGAGAGTTCCAGAATATCTT
AACCATGTAAGTAAACGCTTAGAGGAAGAGGGAGACAGAGTAATCACTTACTTGGACCAC
AGCACACAGAAACCACTGATTGCTTGTGTGGAGAAACAGCTATTAGGAGAACATTTAACA
GCAATTCTGCAGAAAGGGCTCGACCACTTACTGGATGAGAACAGAGTGCCGGACCTCGCA
CAGATGTACCAGCTGTTACGCCGGTGAGGGGCGGGCAGCAGGCGCTGCTGCAGCACTGG
AGCGAGTACATCAAGACTTTTGGAAACAGCGATCGTAATCAATCCTGAGAAAGATAAAGAC
ATGGTCCAAGACCTGTTGGACTTCAAGGACAAGGTGGACCACGTGATCGAGGTCTGCTTC
CAGAAGAATGAGCGGTTTCGTC AACCTGATGAAGGAGTCCTTTGAGACGTTTCATCAACAAG
AGACCCAAACAAGCCTGCAGAAGTATCGCAAAGCATGTGGATTCAAAGTTAAGAGCAGGC
AACAAAGAAGCCACAGACGAGGAGCTGGAGCGGACGTTGGACAAGATCATGATCCTGTTC
AGGTTTATCCACGGTAAAGATGTCTTTGAAGCATTTTATAAAAAAGATTTGGCAAAAAGA
CTCCTTGTGGGAAAAGTGCCTCAGTCGATGCTGAAAAGTCTATGTTGTCAAAGCTCAAG
CATGAGTGCAGTGCAGCCTTACCAGCAAGCTGGAAGGCATGTTCAAGGACATGGAGCTT
TCGAAGGACATTATGGTTCATTTCAAGCAGCATATGCAGAATCAGAGTGACTCAGGCCCT
ATAGACCTCACAGTGAACATACTACAATGGGCTACTGGCCAACATACACGCCCATGGAA
GTGCACCTAACCACGAAATGATTA AACTTCAGGAAGATTTAAGGCATTTTATCTTGGA
AAGCACAGTGGTCGAAA ACTTCAGTGGCAA ACTACTTTGGGACATGCTGTTTTAAAAGCG
GAGTTTAAAGAAGGGAAGAAGGAATTCAGGTGTCCTCTTCCAGACACTGGTGCTCCTC
ATGTTCAACGAGGGAGATGGCTT CAGCTTTGAGGAGATAAAAA TGGCCACGGGGATAGAG
GATAGTGAATTGCGCAGAACGCTGCAGTCCCTGGCCTGTGGCAAAGCACGTGTGCTGATT
AAAAGTCCCAGAGGAAAGGAAGTGAAGATGGAGACAAGTTCATTTTTAATGGAGAGTTC
AAGCACAAGTTGTTTGAATAAAGATCAATCAAATTCAGATGAAGGAACTGTTGAGGAA
CAGGTTAGCACCACTGAGAGAGTGTTCAGGATAGACAATATCAGATTGATGCTGCTATC
GTCAGAATAATGAAGATGAGAAAGACTCTTGGTCATAATCTTCTAGTTTCTGAATTATAT
AATCAGCTGAAATTTCCAGTAAAGCCTGGAGATTTGAAAAAGAGAATTGAATCTCTGATA
GACAGAGACTATATGGAGAGAGACAAAGACAATCCGAATCAGTACCCTACGTGGCCTGA
```

Clone variation with respect to NM\_003589.2

774 c=>t;1212 c=>t;1631 a=>g

**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_003589 unedited  
 GTGTCACGTATATTTGTCAATACGCACTCCACTATAGGGGCTGGCCGCGCAATTCGGCAC  
 GAGGCGGTTCCGGCCAGCCATGGCGGACGAGGCCCGCGGAAGGGCAGCTTCTCGGCGC  
 TCGTGGGCGCACCAACGGCCTACCAAGCCCGCGGCCCTGGCCGCGCGCCCGCAAGC  
 CGGGGGCGCGGGCGGCTCCAAGAAGCTGGTCATCAAGAACTCCGAGACAGACCTCGGC  
 TGCCCGACAACACACGACGACACGCTGGCGGAAGCTGCACGAGGCGGTGCGGGCCGTGC  
 AGAGCAGCACTCCATCAGGTACAACCTCGAGGAGCTCTACCAGGCTGTGAAAAATCTCT  
 GTTCTCACAAGTCTCCCAATGCTCTACAAGCAACTGCGTCAGGCTGTGAAGACCAG  
 TCCAGGCACAGATCCTTCCGTTTAGAGAAGACTCACTAGATAGTGTTTTATTTTAAAGA  
 AGATTAACACGTGCTGGCAGGACCACTGCAGACAAATGATCATGATCAGAAGCATCTTCC  
 TGTTCTTGACCGCACCTATGTGCTGCAGAACTCCACGCTGCCCTCCATCTGGGATATGG  
 GATTAGAAGTGTTAGAACCCATATTATTAGTGATAAAATGGTTCAGAGTAACACCATTG  
 ATGGAATCCTACTGCTGATCGAGCGGACAGGAGCGGCCAGCCCGTGGACCGAACCTGT  
 TCGGAGCCTCCTGGCATGCTGTCTGACCCTGCATGTGTATAAAGAACCATTCTGAACT  
 GAAAAATTTTGGCAGGACCTAATGCTTTATATGCTGCCGAAGGCCAAAGTTTAAATGC  
 AGGAAANAGAGGTTCCCGCAAACTTAACCATGTTAGTAACCGCTTACAGCAAGAGGGGA  
 ACCGAGTAATACTTACCTGGCCCCAGCCCCAA

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_003589 unedited  
 GTCCGCGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTAAATTTAAGGCCAATT  
 AAATAATTTTATCAAAGTAAGTCTACATTAATTAACAATCTCTAGACAC  
 AACGAACTTATAAGAAAAAATAGAAATCTGTTTGGTCTTTCTTAGACCACATATCAT  
 GGAACCTATAAATGAAAAATTTCAAAGTAGAAATGACAATTAAGAGTGAGGATTTAA  
 TATGAAAACCCACAAGGTGTCATATTTCAAACCCGCATGTTTCAAAAAGAGACTCTTAAT  
 AATTTAGCACAATAAATCAAATTATATAAACTTGGTATATTCAGAAAAATTTGCTTTAAAC  
 ACTTATGCCATGATCAAAATTCCTTTGGTAGCTTTTAAATCAAAATGAAACATGCTATTAT  
 GTAAAAATAAAGTACTTTTAAATGTTATCTCAAAAGTATCTTTGTCATAGTTACCCTTC  
 TAACATCACTACTGAACTTTCTTTCACTGTTCAACCTCATGTATATACACAACACAA  
 AACCAGGTACCAACAAAATCCTTTTAACTTTTCCACAAAATAACCTCTGCTTACAACT  
 CAAGACTTAAAGTCTCCATAAACTTTTACAGTTTACAGCAGAGAACAAGGATCGTCCCT  
 GCGCATGACTGTAAAAACCAAACTTTTATTATTGCAATCACACAAATACTGCAATT  
 AAAAAAATCAAAGAGCAGTTACCCCAATGCAAAAAACAGGGACTGCCAGACTCAATCTT  
 AGAATGGAAACANCAACACACTAGCCCCAACCCCTAAACAGAGATTACAAGGAACCTCAN  
 CTGACGAACAGACGCAGCAGGCGACACCATGGCCTTGGGCACTCAGGNAGCTCACTTA  
 GAAACCCTGACTACGAAAAATCACCATCAAAGTTTACAACCTTTGAANTACATN

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_003589

**Insert Size:**

4000 bp

**OTI Disclaimer:**

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**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).

<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_003589.2</a> , <a href="#">NP_003580.1</a>
<b>RefSeq Size:</b>	3735 bp
<b>RefSeq ORF:</b>	1980 bp
<b>Locus ID:</b>	8451
<b>UniProt ID:</b>	<a href="#">Q13619</a>
<b>Cytogenetics:</b>	13q34
<b>Domains:</b>	CULLIN
<b>Protein Pathways:</b>	Nucleotide excision repair, Ubiquitin mediated proteolysis
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (2) utilizes an alternate 5' terminal exon, compared to variant 1, resulting in an isoform (2) with a shorter N-terminus. Variants 2, 3, 5, 6, and 7 all encode the same isoform (2). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>