

## Product datasheet for **RC223793**

### **ACAD11 (NM\_032169) Human Tagged ORF Clone**

#### **Product data:**

|                           |                                           |
|---------------------------|-------------------------------------------|
| Product Type:             | Expression Plasmids                       |
| Product Name:             | ACAD11 (NM_032169) Human Tagged ORF Clone |
| Tag:                      | Myc-DDK                                   |
| Symbol:                   | ACAD11                                    |
| Synonyms:                 | ACAD-11                                   |
| Mammalian Cell Selection: | Neomycin                                  |
| Vector:                   | pCMV6-Entry (PS100001)                    |
| E. coli Selection:        | Kanamycin (25 ug/mL)                      |



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**ORF Nucleotide  
Sequence:**

&gt;RC223793 ORF sequence

Red=Cloning site Blue=ORF Green=Tags(s)

 TTTTGAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGAAGCCAGGTGCTACTGGCGAGTCCGATTTGGCCGAAGTGCTGCCCCAGCACAAGTTCGACAGCAAGT  
 CCCTGGAGGCCTACCTAAACCAGCACTTGTCTGGCTTTGGGGCCGAACGTGAGGCTACGCTGACCATTGC  
 CCAGTACAGAGCAGGAAAGTCCAATCCAACCTTTTATCTCCAGAAGGGCTTTCAAACATATGTGCTCAGG  
 AAAAAACCACCAGGTTCACTTCTTCTAAAGCACATCAGATTGATAGAGAATTTAAAGTCCAGAAAGCCT  
 TGTTTTCAATTGGATTCCCCGTTCCAAGCCTATACTGTACTGCAGTGATACTTCTGTCTATTGGAACAGA  
 ATTTTACGTAATGGAACATGTGCAGGGTGAATCTTCCGTGATTTAACAATTCCTGGACTTAGCCACGA  
 GAACGTTACGCCATATATGTGGCCACGGTAGAAACATTGGCTCAGTTACATTCCTTGAATATACAGTCAC  
 TGCAGCTGGAAGGATATGGTATAGGTGCTGGGTACTGCAAAGACAGGTATCAACCTGGACAAAGCAATA  
 TCAAGCTGCAGCTCATCAGGACATCCCTGCCATGCAACAGCTATCGGAGTGGCTAATGAAGAACTTGCCC  
 GATAATGACAATGAAGAGAATTTGATTCATGGAGATTTTCACTAGATAACATAGTTTTCCACCCTAAAG  
 AGTGTCGAGTTATAGCAGTGCTGGATTGGGAGCTGTCAACCATTTGGTCATCCTTTGTCTAGACTTAGCTCA  
 TTTTCCCTGTTCTACTTTTGGCCAAGGACAGTTCCAATGATAAATCAAGGTTCTTATAGTAAAACTCA  
 GGGATACCATCAATGGAAGAACTGATTTCAATATATTGCCGCTGCAGGGGAATTAATTCTATTCTTCTCA  
 ACTGGAATTTCTTTCTTGCCCTTTCATATTTTAAAGATGGCTGGAATAGCACAGGGAGTATATAGCAGATA  
 TCTTCTGGGAAATAATTCATCTGAGGATAGCTTTTATTTGCCAATATTGTGCAACCTCTGGCAGAACT  
 GGACTACAACCTCCAAACGAACCTTTCAGTACTGTACTACCACAGATTGATACTACTGGACAGTTGTTTG  
 TACAGACTCGGAAAGGTGAGGAAGTTCTTATTAAGGTGAAGCATTTTCATGAAACAACACATTCTTCCAGC  
 TGAAAAGGAGGTAAGTGAAGTTCTATGTTCAAAATGAAAATTCAGTGGACAAGTGGGGAAAACCTTTAGTG  
 ATTGATAAACTCAAGGAATGGCCAAAGTCGAGGGTCTCTGGAACCTGTTTTTGGCAGCTGTGAGCGGAC  
 TCAGCCACGTGGACTATGCCTTGATTGCTGAAGAAACAGGAAAATGCTTTTTTGTCTCAGATGTCTTTAA  
 CTGCCAAGCACCAGACACAGGGAATATGGAGGTTCTGCACCTGTATGGAAGTGAGGAACAGAAGAAACAG  
 TGGCTTGAGCCTCTTCTCAAGGGAACATTACCTCTTGCTTCTGTATGACAGAACCTGATGTAGCTTCAA  
 GTGATGCCACGAATATTGAATGCAGCATCCAACGAGATGAAGATAGCTATGTAATTAACGGCAAAAAATG  
 GTGGAGCAGTGGAGCTGGGAATCCCAAGTGCAAAATTGCAATTGTTTTGGGAAGAACTCAAATACTTCT  
 CTCTCCAGACACAAACAGCACAGCATGATTCTTGTTCCTGAAACACACCTGGAGTAAAAATAATAAGGC  
 CTTTGTCAGTTTTTGGCTACACAGATAATTTTCATGGAGGACATTTTGAGATCCATTTTAAATCAAGTGCG  
 AGTTCTCTGCCACAAATCTAATACTAGGTGAAGGTAGGGGATTTGAAATTTCCCAAGGCCGCTTGACCT  
 GGCAGAATCCACCACTGTATGAGAACAGTAGGTTTGGCGGAACGCGCTTTGCAGATCATGTGTGAGCGGG  
 CAACACAAAGGATAGCTTTCAAGAAGAAGTTGTATGCACATGAGGTTGTGGCTCACTGGATTGCTGAAAG  
 CCGCATTGCCATTGAGAAGATCCGCTTGTGACTCTGAAAGCTGCTCACAGCATGGACACTCTGGGCAGT  
 GCTGGCGCTAAGAAAGAGATTGCAATGATCAAAGTGGCTGCCCCACGGGCTGTGAGCAAAATCGTTGACT  
 GGGCCATCCAGGTGTGCGGAGGTGCTGGTGTTCAGGATTACCCTCTGGCTAACATGTATGCTATAAC  
 CCGAGTTTTGCGTTTAGCAGATGGACCTGACGAAGTTCATCTTTCAGCAATCGCAACAATGGAGCTGCGG  
 GACCAAGCCAAAAGACTGACAGCCAAGATA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC223793 protein sequence

Red=Cloning site Green=Tags(s)

MKPGATGESDLAEVLPQHKFDSKSLEAYLNQHL SGFGAEREATLTIAQYRAGKSNPTFYLQKGFQTYVLR  
 KKPPGSLLPKAHQIDREFKVQKALFSIGFPVPKPILYCSDTSVIGTEFYVMEHVQGRIFRDLTIPGLSPA  
 ERSAIYVATVETLAQLHSLNIQSLQLEGYGIGAGYCKRQVSTWTKQYQAAAHQDIPAMQQLSEWLMKNLP  
 DNDNEENLIHGDFRLDNIVFHPKECRVIAVL DWELSTIGHPLSDLAHFSLFYFWPRTVPMINQGSYSENS  
 GIPSMEEELISYCRCRGINSILPNWNFFLALSYFKMAGIAQGVYSRYLLGNNSSSEDSFLFANIVQPLAET  
 GLQLSKRTFSTVLPQIDTTGQLFVQTRKGQEVLIKVKHFMKQHILPAEKEVTEFYVQNENSVDKWGKPLV  
 IDKLKEMAKVEGLWNLFLPAVSGLSHVDYALIAEETGKCFFAPDVFNCQAPDTGNMEVLHLYGSEEQKKQ  
 WLEPLLQGNITSCFCMTEPDVASSDATNIECSIQRDEDSYVINGKKWSSGAGNPKCKIAIVLGRTQNTS  
 LSRHKQHSMILVPMNTPGVKIIIRPLSVFGYTDNFHGGHFEIHFNQVRVPATNLILGEGRGFEISQGRLLGP  
 GRIHHCMRTVGLAERALQIMCERATQRIAFKKKLYAHEVVVAHWIAESRIAEKIRLLTLKAAHSMDTLGS  
 AGAKKEIAMIKVAAPRAVSKIVDWAIQVCGGAGVSQDYPLANMYAITRVLRLADGPDEVHLSAIATMELR  
 DQAKRLTAKI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mk6563\\_a10.zip](https://cdn.origene.com/chromatograms/mk6563_a10.zip)

**Restriction Sites:**

Sgfl-MluI

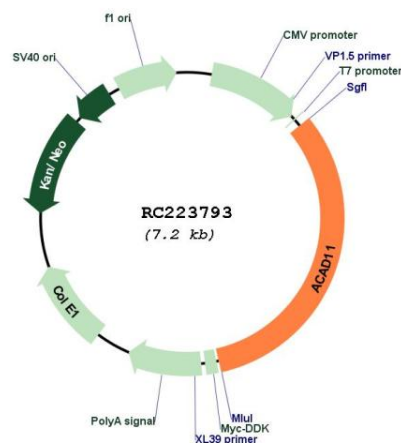
Cloning Scheme:



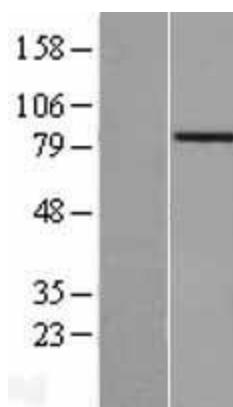
|                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ACCN:           | NM_032169                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| ORF Size:       | 2340 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. <a href="#">More info</a> |
| 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).                                                                                                                                                                                                                                                               |

|                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <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>Note:</b>                  | Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>RefSeq:</b>                | <u>NM_032169.5</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>RefSeq Size:</b>           | 3556 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>RefSeq ORF:</b>            | 2343 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Locus ID:</b>              | 84129                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>UniProt ID:</b>            | <u>Q709F0</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Cytogenetics:</b>          | 3q22.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Domains:</b>               | Acyl-CoA_dh, Acyl-CoA_dh_M                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Protein Families:</b>      | Druggable Genome                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>MW:</b>                    | 87.3 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Gene Summary:</b>          | This gene encodes an acyl-CoA dehydrogenase enzyme with a preference for carbon chain lengths between 20 and 26. Naturally occurring read-through transcription occurs between the upstream gene NPHP3 (nephronophthisis 3 (adolescent)) and this gene. [provided by RefSeq, Aug 2015]                                                                                                                                                                                                                                  |

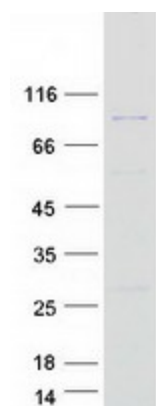
## Product images:



Circular map for RC223793



Western blot validation of overexpression lysate (Cat# [LY410297]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC223793 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified ACAD11 protein (Cat# [TP323793]). The protein was produced from HEK293T cells transfected with ACAD11 cDNA clone (Cat# RC223793) using MegaTran 2.0 (Cat# [TT210002]).