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Product datasheet for RG223793

ACAD11 (NM_032169) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ACAD11 (NM_032169) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ACAD11
Synonyms:	ACAD-11
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>RG223793 representing NM_032169
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAAGCCAGGTGCTACTGGCGAGTCCGATTTGGCCGAAGTGCTGCCCCAGCACAAGTTCGACAGCAAGT
CCCTGGAGGCCTACCTAAACCAGCACTTGTCTGGCTTTGGGGCCGAACGTGAGGCTACGCTGACCATTGC
CCAGTACAGAGCAGGAAAGTCCAATCCAACCTTTTATCTCCAGAAGGGCTTTCAAACATATGTGCTCAGG
AAAAAACCACCAGGTTCACTTCTTCCTAAAGCACATCAGATTGATAGAGAATTTAAAGTCCAGAAAGCCT
TGTTTTCAATTGGATTCCCCGTTCCCAAGCCTATACTGTACTGCAGTGATACTTCTGTCATTGGAACAGA
ATTTTACGTAATGGAACATGTGCAGGGTCGAATCTTCCGTGATTTAACAATTCCTGGACTTAGCCCAGCA
GAACGTTCAGCCATATATGTGGCCACGGTAGAAACATTGGCTCAGTTACATTCCTTGAATATACAGTCAC
TGCAGCTGGAAGGATATGGTATAGGTGCTGGGTACTGCAAAAGACAGGTATCAACCTGGACAAAGCAATA
TCAAGCTGCAGCTCATCAGGACATCCCTGCCATGCAACAGCTATCGGAGTGGCTAATGAAGAACTTGCCC
GATAATGACAATGAAGAGAATTTGATTCATGGAGATTTCAGACTAGATAACATAGTTTTCCACCCTAAAG
AGTGTCGAGTTATAGCAGTGCTGGATTGGGAGCTGTCAACCATTGGTCATCCTTTGTCAGACTTAGCTCA
TTTTTCCCTGTTCTACTTTTGGCCAAGGACAGTTCCAATGATAAATCAAGGTTCTTATAGTGAAAACTCA
GGGATACCATCAATGGAAGAACTGATTTCAATATATTGCCGCTGCAGGGGAATTAATTCTATTCTTCCTA
ACTGGAATTTCTTTCTTGCCCTTTCATATTTTAAGATGGCTGGAATAGCACAGGGAGTATATAGCAGATA
TCTTCTGGGAAATAATTCATCTGAGGATAGCTTTTTATTTGCCAATATTGTGCAACCTCTGGCAGAAACT
GGACTACAACTCTCCAAACGAACTTTCAGTACTGTACTACCACAGATTGATACTACTGGACAGTTGTTTG
TACAGACTCGGAAAGGTCAGGAAGTTCTTATTAAGGTGAAGCATTTCATGAAACAACACATTCTTCCAGC
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TCAGCCACGTGGACTATGCCTTGATTGCTGAAGAAACAGGAAAATGCTTTTTTGCTCCAGATGTCTTTAA
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TGGCTTGAGCCTCTTCTTCAAGGGAACATTACCTCTTGCTTCTGTATGACAGAACCTGATGTAGCTTCAA
GTGATGCCACGAATATTGAATGCAGCATCCAACGAGATGAAGATAGCTATGTAATTAACGGCAAAAAATG
GTGGAGCAGTGGAGCTGGGAATCCCAAGTGCAAAATTGCAATTGTTTTGGGAAGAACTCAAAATACTTCT
CTCTCCAGACACAAACAGCACAGCATGATTCTTGTTCCCATGAACACACCTGGAGTAAAAATAATAAGGC
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GGCAGAATCCACCACTGTATGAGAACAGTAGGTTTGGCGGAACGCGCTTTGCAGATCATGTGTGAGCGGG
CAACACAAAGGATAGCTTTCAAGAAGAAGTTGTATGCACATGAGGTTGTGGCTCACTGGATTGCTGAAAG
CCGCATTGCCATTGAGAAGATCCGCTTGTTGACTCTGAAAGCTGCTCACAGCATGGACACTCTGGGCAGT
GCTGGCGCTAAGAAAGAGATTGCAATGATCAAAGTGGCTGCCCCACGGGCTGTCAGCAAAATCGTTGACT
GGGCCATCCAGGTGTGCGGAGGTGCTGGTGTTTCCCAGGATTACCCTCTGGCTAACATGTATGCTATAAC
CCGAGTTTTGCGTTTAGCAGATGGACCTGACGAAGTTCATCTTTCAGCAATCGCAACAATGGAGCTGCGG
GACCAAGCCAAAAGACTGACAGCCAAGATA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG223793 representing NM_032169
Red=Cloning site Green=Tags(s)

MKPGATGESDLAEVLPQHKFDSKSLEAYLNQHLSGFGAEREATLTIAQYRAGKSNPTFYLQKGFQTYVLR
KKPPGSLLPKAHQIDREFKVQKALFSIGFPVPKPILYCSDTSVIGTEFYVMEHVQGRIFRDLTIPGLSPA
ERSAIYVATVETLAQLHSLNIQSLQLEGYGIGAGYCKRQVSTWTKQYQAAAHQDIPAMQQLSEWLMKNLP
DNDNEENLIHGDFRLDNIVFHPKECRVIAVLDWELSTIGHPLSDLAHFSLFYFWPRTVPMINQGSYSENS
GIPSMEELISIYCRCRGINSILPNWNFFLALSYFKMAGIAQGVYSRYLLGNNSSEDSFLFANIVQPLAET
GLQLSKRTFSTVLPQIDTTGQLFVQTRKGQEVLIKVKHFMKQHILPAEKEVTEFYVQNENSVDKWGKPLV
IDKLKEMAKVEGLWNLFLPAVSGLSHVDYALIAEETGKCFFAPDVFNCQAPDTGNMEVLHLYGSEEQKKQ
WLEPLLQGNITSCFCMTEPDVASSDATNIECSIQRDEDSYVINGKKWWSSGAGNPKCKIAIVLGRTQNTS
LSRHKQHSMILVPMNTPGVKIIRPLSVFGYTDNFHGGHFEIHFNQVRVPATNLILGEGRGFEISQGRLGP
GRIHHCMRTVGLAERALQIMCERATQRIAFKKKLYAHEVVAHWIAESRIAIEKIRLLTLKAAHSMDTLGS
AGAKKEIAMIKVAAPRAVSKIVDWAIQVCGGAGVSQDYPLANMYAITRVLRLADGPDEVHLSAIATMELR
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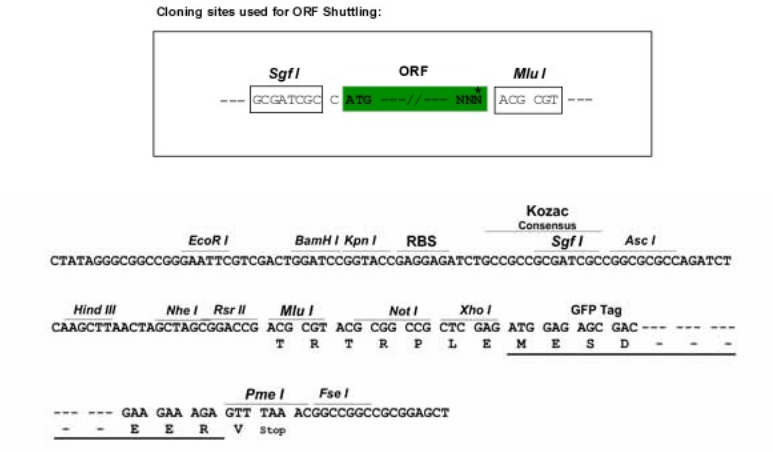
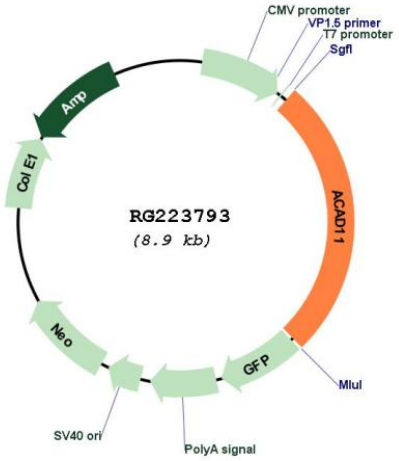
TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



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. 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:	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_032169.5
RefSeq Size:	3527 bp
RefSeq ORF:	2343 bp
Locus ID:	84129
UniProt ID:	Q709F0
Cytogenetics:	3q22.1

Domains:	Acyl-CoA_dh, Acyl-CoA_dh_M
Protein Families:	Druggable Genome
Gene Summary:	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]