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Product datasheet for RC203364

ACSS3 (NM_024560) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ACSS3 (NM_024560) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ACSS3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC203364 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAAACCGTCTTGGCTGCAGTGTCGTAAAGTCACCAGCGCCGGGGGGCTCGGAGGGCCCTTGCCTGGGT
CCTCTCCGGCCCGGGGAGCCGGTGCGGCCCTCAGGGCTTTAGTGGTCCCGGGCCCGCGGGGCGGTCTCGG
GGGCCGGGGATGCAGGGCACTGTCCTCCGGCAGTGGCAGCGAGTACAAGACCCACTTCGCAGCCTCGGTG
ACCGACCCCGAGAGGTTCTGGGGCAAAGCTGCCGAGCAGATCAGCTGGTACAAGCCCTGGACCAAAACGC
TGGAGAACAAACACTCGCCCTCTACCAGGTGGTTTGTGGAAGGAATGCTTAACATTTGTTACAATGCCGT
TGATCGTCATATTGAAAATGGTAAAGGGGATAAGATTGCTATCATCTATGACAGTCCTGTTACAAACACT
AAAGCAACCTTTACCTATAAAGAAGTTCTGGAGCAGGTCTCCAAGCTGGCTGGTGTCTTGGTCAAGCATG
GCATCAAGAAAGGTGACACTGTGGTTATCTACATGCCTATGATCCCACAGGCGATGTATACCATGTTGGC
ATGTGCAAGGATAGGTGCCATCCACAGTCTCATATTTGGAGGATTTGCTTCCAAAGAACTAAGTAGTCGC
ATTGATCATGTAAAGCCCAAGGTGGTTGTTACAGCATCATTTGGCATTGAACCTGGAAGGAGGGTAGAGT
ACGTACCACTTGTAGAAGAAGCGCTAAAAATAGGACAACACAAACCAGACAAAATTCTCATTTATAATCG
TCCAAATATGGAGGCGGTTCCTTTGGCTCCCGGTCGTGACCTTGATTGGGATGAAGAGATGGCAAAAGCC
CAGTCACATGACTGTGTTCCTGTTCTTTCAGAACACCCACTGTATATTCTTTACACATCTGGCACAACGG
GGTTACCTAAGGGTGTGATTAGGCCCACTGGGGGATACGCTGTCATGCTACACTGGTCAATGTCTTCCAT
ATACGGACTTCAACCCGGAGAGGTGTGGTGGGCAGCTTCTGACTTAGGCTGGGTTGTTGGACATTCCTAT
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ATGCTGGCGCTTATTTCCGTGTGCTTGCAGAGCATGGAGTAGCTGCCTTGTTTACAGCACCAACTGCAAT
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CATGGATGCTGGTTACATGGATGAAGAAGGCTATTTGTATGTTATGTCTCGAGTGGATGATGTAATAAAT
GTTGCAGGTCACAGAATTTCTGCAGGCGCCATTGAAGAGTCAATCCTTTCCCATGGTACCGTGGCAGACT
GTGCTGTTGTTGGCAAGGAAGATCCCTTAAAAGGTCATGTCCCCTTAGCACTCTGTGTATTGAGAAAAGA
TATAAATGCAACAGAGGAGCAAGTTTTGGAAGAAATTGTGAAACACGTTAGACAGAACATTGGCCCTGTG
GCTGCTTTTCGAAATGCAGTGTTTGTCAAACAGCTACCCAAAACCAGATCTGGCAAGATCCCCCGATCAG
CTTTATCTGCCATTGTCAATGGCAAGCCATACAAGATAACTTCTACAATTGAAGACCCCAGCATTTTTGG
CCACGTAGAAGAAATGCTGAAGCAAGCA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC203364 protein sequence
Red=Cloning site Green=Tags(s)

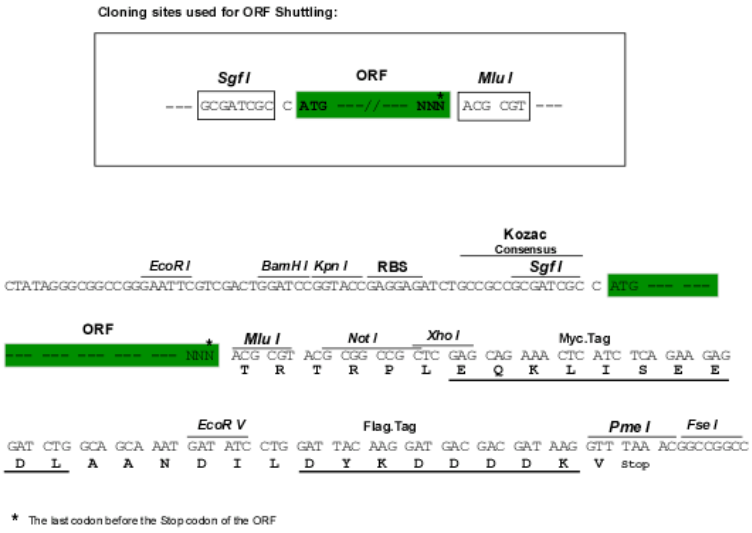
MKPSWLQCRKVTSAGGLGGPLPGSSPARGAGAALRALVVPGPRGGLGGRGCRALSSGSGSEYKTHFAASV
TDPERFWGKAAEQISWYKPWTKTLENKHSPSTRWFVEGMLNICYNAVDRHIENGKGDKIAIIYDSPVTNT
KATFTYKEVLEQVSKLAGVLVKHGIKKGDTVVIYMPMIPQAMYTMLACARIGAIHSLIFGGFASKELSSR
IDHVKPKVVVTASFGIEPGRRVEYVPLVEEALKIGQHKPDKILIYNRPNMEAVPLAPGRDLDWDEEMAKA
QSHDCVPVLSEHPLYILYTSGTTGLPKGVIRPTGGYAVMLHWSMSSIYGLQPGEVWWAASDLGWVVGHSY
ICYGPLLHGNTTVLYEGKPVGTPDAGAYFRVLAEHGVAALFTAPTAIRAIRQQDPGAALGKQYSLTRFKT
LFVAGERCDVETLEWSKNVFRVPVLDHWWQTETGSPITASCVGLGNSKTPPPGQAGKSVPGYNVMILDDN
MQKLKARCLGNIVVKLPLPPGAFSGLWKNQEAFKHLYFEKFPGYYDTMDAGYMDEEGYLYVMSRVDDVIN
VAGHRISAGAIEESILSHGTVADCAVVGKEDPLKGHVPLALCVLRKDINATEEQVLEEIVKHVRQNIGPV
AAFRNAVFVKQLPKTRSGKIPRSALSAIVNGKPYKITSTIEDPSIFGHVEEMLKQA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6566_h05.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_024560

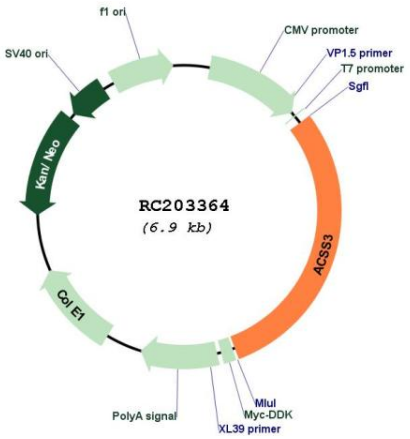
ORF Size: 2058 bp

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

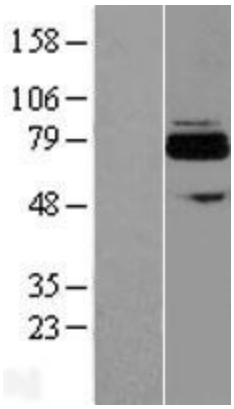
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_024560.4
RefSeq Size:	3033 bp
RefSeq ORF:	2061 bp
Locus ID:	79611
UniProt ID:	Q9H6R3
Cytogenetics:	12q21.31
Domains:	AMP-binding
Protein Pathways:	Metabolic pathways, Propanoate metabolism
MW:	74.8 kDa
Gene Summary:	Activates acetate so that it can be used for lipid synthesis or for energy generation. [UniProtKB/Swiss-Prot Function]

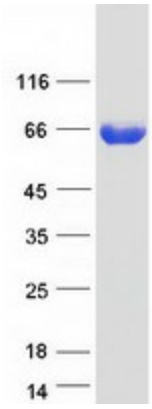
Product images:



Circular map for RC203364



Western blot validation of overexpression lysate (Cat# [LY411192]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC203364 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified ACSS3 protein (Cat# [TP303364]). The protein was produced from HEK293T cells transfected with ACSS3 cDNA clone (Cat# RC203364) using MegaTran 2.0 (Cat# [TT210002]).