

Product datasheet for **MR210131**

Acss2 (NM_019811) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Acss2 (NM_019811) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Acss2
Synonyms:	1110017C11Rik; ACAS; Acas1; Acas2; AceCS1; Acs1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide
Sequence:

>MR210131 representing NM_019811
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGGGCTTCCCAGGAGCGGCCAAGAGCGGCAGTGGAAGCCGGGCTCGTGAGGAGACCGGCCGAGG
GCCGGGTGCGGGTTGGTCCCCGCCCGGAGGTCAGACGCTCGGCGCAGTCCCCTCTCTGCAGCGCTA
CCGCGAGCTGCACCGCGTTCTGTGGAGAGCCACGGGAGTTTTGGGAAACATTGCCAAGGAATTTTAC
TGGAAAACCGCATGCCCTGGCCATTCTCCAGTACAACCTTTGATGTGACTAAAGGGAAAAATTTCACTG
AGTGGATGAAAGGAGCAACTACAAACATCTGCTACAACGTGCTGGATCGAAATGTCCATGAGAAAAA
TGGCGACAAAGTTGCTTTTTACTGGGAGGGCAATGAGCCAGGGGAGACCACCAAGATCACATACCGTGA
CTCCTGGTCCAGGTGTGTGAGTTCAGCAATGTTCTCCGTAACAGGGCATTGAGAAGGGTGACCGAGTGG
CCATCTACATGCCTATGATCTTGAACCTGTGGTGGCTATGCTGGCATGCGCTCGCCTTGGAGCTTTGCA
CTCCATTGTGTTGCAGGCTTCTGTCAGAGTCTCTCTGTGAAAGGATCTTGGATTCCAGTTGCTGCCTG
CTCATCACTACAGATGCCTTCTACAGGGGGGAAAAAAGTTGTGAACCTGAAGGAGCTGGCTGATGAGTCT
TGGAGAAGTGCCGAGAGAAGGGTCCCAGTGAGATGCTGCATTGTGGTCAAACATCTGGGGCGGCCAGA
GCTGGGCATGAATGACTCCCCAGCCAGTCCCCACCAGTTAAGAGGCCATGTCCAGATGTCCAGATCTGC
TGGAACGAAGGGGTTGACTTATGGTGGCATGAACCTATGCAGCAGGCAGGAGACGAGTGTGAGCCTGAGT
GGTGTGATGCTGAGGACCCACTTTCATCTTGTACACCAGTGGCTCCACAGGCAACCTAAGGGTGTGGT
GCACACAATTGGAGGCTATATGCTCTATGTGGTACAACCTTCAAGTATGTGTTTGATTTCCACCCGGAA
GATGTGTTCTGGTGCACAGCAGACATCGGCTGGATCACTGGTCATTCTATGTCACCTATGGGCCACTGG
CTAATGGTGCCACTAGTGTGTTTGGTGGAGGGATCCCCACATACCCAGATGAAGGGCGCTTGTGGAGCAT
TGTGGACAAATACAAGGTGACCAAGTCTACACGGCACCAACAGCCATCCGGATGCTCATGAAGTTTGGGA
GATGATCTGTCAACCAAGCATAGCCGGGCATCCCTGCAGGTGCTGGGCACAGTAGGTGAACCCATCAACC
CTGAAGCCTGGCTATGGTACCACCGGTAGTAGGTTCCCAGCGCTGCCCATTTGTAGACACCTTCTGGCA
AACAGAAACAGGTGGCCATATGCTGACCCCTCTCCCTGGCGCCACACCCATGAAACCTGGTTCTGCTTCT
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GTTATCTGGTGTCAAGCAGCCCTGGCCAGGGATCATGCGCACAGTCTATGGGAACCACACCGTTTGA
GACCACCTACTTTAAGAAGTCCCTGGCTACTATGTGACCGGAGATGGCTGCCGACGGGATCAGGATGGC
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GGGCGAATGCCTCTACTGCTTTGTACCTTGTGTGATGGCCATACCTTACGCCCCACACTCACAGAGGAA
CTCAAGAAGCAGATTAGAGAAAAGATTGGCCCCATTGCCACACCAGACTACATCCAGAATGCACCTGGCT
TGCCATAAACACGCTCAGGGAAAATCATGAGGCGAGTTCTCCGGAAGATTGCTCAGAATGACCATGACCT
GGGGGATACATCTACGGTGGCTGACCCATCTGTCAACCATCTCTCAGTACCGCTGCCTGACCACC
CAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR210131 representing NM_019811
 Red=Cloning site Green=Tags(s)

MGLPEERRKSGSGSRAREETGAEGRVRGWSPPEVRRSAHVPSLQRYRELHRRSVEEPREFWGNIAKEFY
 WKTACPGPFLQYNFDVTKGKIFTEWMKGATTNICYNVLDNRVHEKKLGDKVAFYWEGNEPGETTKITYRE
 LLVQVCQFSNVLKQGIQKGRVAIYMPMILEL VVAMLACARLGALHSIVFAGFSAESLCERILDSSCCL
 LITTDAFYRGEKLVNLKELADESLEKCREKGFVVRCCI VVKHLGRAELGMNDSPSQSPPVKRPCPDVQIC
 WNEGVDLWWHELMQQAGDECEPEWCDAEDPLF ILYTSGSTGKPKGVVHTIGGYMLYVATTFKYVDFHPE
 DVFWCTADIGWITGHSYVYGPLANGATSVL FEGIPTYPDEGRLWSIVDKYKVTKFYTAPTAIRMLMKFG
 DDPVTKHSRASLQVLGTVGEPINPEAWLWYHRVVGSRQRCPIVDTFWQTETGGHML TPLPGATPMKPGSAS
 FPFVGVAPAILNESGEELEGEAEGYL VFKQPWPGIMRTVYGNHTRFETTYFKKFPGYVYVTDGDCRRDQDG
 YYWITGRIDDMLNVSGHLLSTAEVESAL VEHEAVAEAAVVGHPHPVKGECLYCFVTLCDGHTFSPTL TEE
 LKKQIREKIGPIATPDYIQNAPGLPKTRSGKIMRRVLRKIAQNDHDLGDTSTVADPSVINHLF SHRCLTT
 Q

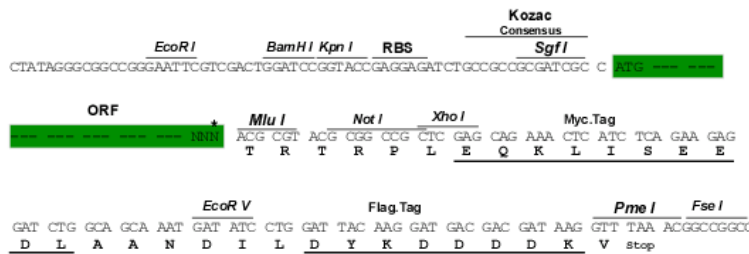
TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9049_b11.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_019811

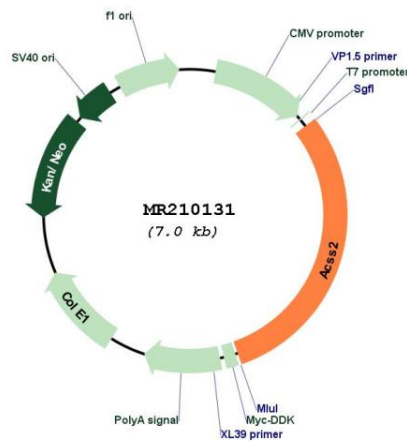
ORF Size: 2103 bp

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:	<ol style="list-style-type: none"> 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:	<u>NM_019811.3, NP_062785.2</u>
RefSeq Size:	2833 bp
RefSeq ORF:	2106 bp
Locus ID:	60525
UniProt ID:	<u>Q9QXG4</u>
Cytogenetics:	2 H1
MW:	79.3 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 MR210131