

Product datasheet for **MG210131**

Acss2 (NM_019811) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Acss2 (NM_019811) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Acss2
Synonyms:	1110017C11Rik; ACAS; Acas1; Acas2; AceCS1; Acs1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide
Sequence:

>MG210131 representing NM_019811
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGGGCTTCCCAGGAGCGGCCAAGAGCGGCAGTGGAAGCCGGCTCGTGAGGAGACCGGCCGAGG
 GCCGGTGCGGGTTGGTCCCCGCCCGGAGGTCAGACGCTCGGCGCAGTCCCCTCTCTGCAGCGCTA
 CCGCGAGCTGCACCGCCTTCTGTGGAGAGCCACGGAGTTTTGGGAAACATTGCCAAGGAATTTTAC
 TGGAAACTGCATGCCCTGGCCATTCTCCAGTACAACCTTTGATGTGACTAAAGGGAAAAATTTCACTG
 AGTGGATGAAAGGAGCAACTACAAACATCTGCTACAACGTGCTGGATCGAAATGTCCATGAGAAAAA
 TGGCGACAAAGTTGCTTTTTACTGGGAGGGCAATGAGCCAGGGGAGACCACCAAGATCACATACCGTGA
 CTCCTGGTCCAGGTGTGTGAGTTCAGCAATGTTCTCCGTAACAGGGCATTGAGAAAGGTGACCGAGTGG
 CCATCTACATGCCTATGATCTTGAACCTGTGGTGGCTATGCTGGCATGTGCTCGCCTTGGAGCTTTGCA
 CTCATTGTGTTTGCAGGCTTCTGTCAGAGTCTCTGTGAAAGGATCTTGGATTCCAGTTGCTGCCTG
 CTCATCACTACAGATGCCTTCTACAGGGGGAAAAAAGTTGTGAACCTGAAGGAGCTGGCTGATGAGTCT
 TGGAGAAGTGCCGAGAGAAGGGCTTCCCAGTGAGATGCTGCATTGTGGTCAAACATCTGGGGCGGCCAGA
 GCTGGGCATGAATGACTCCCCAGCCAGTCCCCACAGTTAAGAGGCCATGTCCAGATGTCCAGATCTGC
 TGGAACGAAGGGGTTGACTTATGGTGGCATGAACATGACAGCAGGCAGGAGACGAGTGTGAGCCTGAGT
 GGTGTGATGCTGAGGACCCACTTTCATCTTGTACACAGTGGCTCCACAGGCAAACCTAAGGGTGTGGT
 GCACACAATTGGAGGCTATATGCTCTATGTGGCTACAACCTTCAAGTATGTGTTTGAATTTCCACCCGAA
 GATGTGTTCTGGTGCACAGCAGACATCGGCTGGATCACTGGTCATTCTATGTACCTATGGGCCACTGG
 CTAATGGTGCCACTAGTGTGTTTGGTGGGGATCCCCACATACCCAGATGAAGGGCGCTTGTGGAGCAT
 TGTGGACAAATACAAGGTGACCAAGTTCTACACGGCACCAACAGCCATCCGGATGCTCATGAAGTTTGG
 ATGATCCTGTACCAAGCATAGCCGGGCATCCCTGCAGGTGCTGGGCACAGTAGGTGAACCCATCAACC
 CTGAAGCCTGGCTATGGTACCACCGGTAGTAGGTTCCCAGCGCTGCCCATTTGTAGACACCTTCTGGCA
 AACAGAAACAGGTGGCCATATGCTGACCCCTCTCCCTGGCGCCACACCCATGAAACCTGGTTCTGCTTCT
 TTCCATTCTTCGGTGTAGCGCTGCAATCCTGAATGAGTCCGGGGAGGAGCTGGAAGGGGAAGCTGAAG
 GTTATCTGGTGTCAAGCAGCCCTGGCCAGGGATCATGCGCACAGTCTATGGGAACCACACCGTTTGA
 GACCACCTACTTTAAGAAGTCCCTGGCTACTATGTGACCGGAGATGGCTGCCGACGGGATCAGGATGGC
 TATTACTGGATCACGGGCAGGATTGATGACATGCTCAATGTGTCTGGACATCTCCTGAGTACAGCAGAGG
 TGGAAATCGGCACTTGTGGAACACGAGGCTGTGCGAGAGGAGCTGTGGTGGGCCACCCATCCTGTGAA
 GGGCGAATGCCTCTACTGCTTTGTACCTTGTGTGATGGCCATACCTTACGCCCCACACTCACAGAGGAA
 CTCAAGAAGCAGATTAGAGAAAAGATTGGCCCCATTGCCACACCAGACTACATCCAGAATGCACCTGGCT
 TGCCATAAACACGCTCAGGGAAAATCATGAGGCGAGTTCTCCGGAAGATTGCTCAGAATGACCATGACCT
 GGGGGATACATCTACGGTGGCTGACCCATCTGTTCATCAACCATCTTTCAGTACCGCTGCCTGACCACC
 CAG

ACCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG210131 representing NM_019811
 Red=Cloning site Green=Tags(s)

MGLPEERRKSGSGSRAREETGAEGRVRGWSPPEVRRSAHVPSLQRYRELHRRSVEEPREFWGNIAKEFY
 WKTACPGPFLQYNFDVTKGKIFTEWMKGATTNICYNVLDNRVHEKKGDKVAFYWEGNEPGETTKITYRE
 LLVQVCQF SNVLRKQGIQKGRVAIYMPMILEL VVAMLACARLGALHSIVFAGFSAESLCERILDSSCCL
 LITTD AFYRGEKLVNKLKELADESLEKCREKGFVVRCCI VVKHLGRAELGMNDSPSQSPPVKRCPDVQIC
 WNEGVDLWWHELMQQAGDECEPEWCDAEDPLF ILYTSGSTGKPKGVVHTIGGYMLYVATTFKYVDFHPE
 DVFWCTADIGWITGHSYVYGPLANGATSVL FEGIPTYPDEGRLWSIVDKYKVTKFYTAPTAIRMLMKFG
 DDPVTKHSRASLQVLGTVGEPINPEAWLWYHRVVGSRQRCPIVDTFWQTETGGHMLTPLPGATPMKPGSAS
 FPF FGVAPAILNESGEELEGEAEGYL VFKQPWPGIMRTVYGNHTRFETTYFKKFPGYVYVTDGDCRRDQDG
 YYWITGRIDDMLNVSGHLLSTAEVESAL VEHEAVAEAAVVGHPHPVKGECLYCFVTLCDGHTFSPTL TEE
 LKKQIREKIGPIATPDYIQNAPGLPKTRSGKIMRRVLRKIAQNDHDLGDTSTVADPSVINHLF SHRCLTT
 Q

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



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:

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_019811.2](#)

RefSeq Size: 2833 bp

RefSeq ORF: 2106 bp

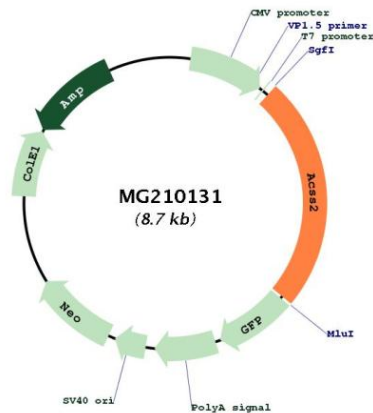
Locus ID: 60525

UniProt ID: [Q9QXG4](#)

Cytogenetics: 2 H1

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 MG210131