

Product datasheet for **MG206889**

Acadsb (NM_025826) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Acadsb (NM_025826) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Acadsb
Synonyms:	2-MEBCAD; 1300003O09Rik; BB066609; SBCAD
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG206889 representing NM_025826 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGGTCTCTGCGCTCCAGCTGTGGCGTATGGGCGGGCTGCTGAGAAGACGTTCCCAACCTGCTTGT
CTTCTTGGAAAGATTCTCCTCGTGTCTCAAATCCTCACAACCGAAGCTCTAGTCAGTCTGACAAACAA
TGCACTGGCCTTTCACCTCTGCAGACACTTACTGATGAGGAAATATGATGAAGCAGACAGTCAAAAA
TTTGCACAGGAGCACGTTGCTCCTCTGGTTTCTCTATGGATGAGAACTCAAAAAATGGAGAAATCGGTGA
TCCAGGGATTGTCCAGCAAGGGCTGATGGCATTGAAGTTGAAGCACAATATGGAGGGACAGAAGCTTC
CTTTTTCTGCTCTGTCTAGTGATAGAGGAACTAGCTAAGGTGGATGCCTCGGTGGCTCTCTGTGTGAC
ATCCAGAACAATAATTAACAACCTGTTTAGAAAACACGCTTCAGAAGAACAGAAGGCCACCTATTTGC
CAAAGCTGGTTACAGAAAAATTAGGGAGCTTTTGCCTTTCTGAAGCTGGAGCCGGTAGCGACTCTTTTGC
TATGAAAACAAGAGCTGATAAAAGTGGAAATTACTACGTCCTCAATGGGTGGAAGATGTGGATCAGCCAT
GCCGAGCATGCAGAGCTTCTCCTGGTCTTCGCCAATGTGGACCCAGCTCTGGCTACAGAGGCATCACCT
GCTTCTTAGTAGACCGAGATACAGAAGGTTTCCAGATAGGGAACGAGAAAAATAAATGGGCATCAGAGC
TTCATCCACCTGTCAGTTAACATTTGAAAATGTTAAGGTTCCAGAGACTAATATTTTGGGAAAAATTGGG
CATGGTTATAAGTATGCCATAGGAAGTCTTAATGAAGTGAATCGGAATTGCTGCACAGATGCTAGGAC
TGGCCCAAGGATGTTTTGACTACACTATTCATACATTAAGAAAGGATGCAAGTTTGGCAACGAATATT
TGATTTTCAGGGGCTCCAACACCAAGTGCTCAGGTGGCCACCCAGCTGGAAGCCACACGGTTGCTAACA
TACAACGCTGCTAGGCTCGTAGAAGCCGGAAGGCCATTTATAAAGAAGCATCTATGGCCAAATATTATG
CATCCGAGGTCGCTGGGCTAACAAACGAAGTGCATCGAGTGGATGGGAGGGTTGGCTACACCAAGA
TTACCCTGTGGAGAAATCTTCCGAGATGCCAAGATTGGTACAATATATGAAGGAGCTTCCAACATCCAG
CTGAACACCATCGCCAAGCACATCGATGCAGAGTAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG206889 representing NM_025826
 Red=Cloning site Green=Tags(s)

MAVSALQLWRMGLLRRRFPTCLSSWKIPPRVLKSSQPEALVSLTNNALAFAPLQTLTDEEIMMKQTVKK
 FAQEHVAPLVSSMDENSKMEKSVIQGLFQQGLMGIEVEAQYGGTEASFFCSVLVIEELAKVDASVALLCD
 IQNTIINNLFKRHASEEQKATYLPKLVTEKLGFSFCLSEAGAGSDSFAMKTRADKSGNYYYVLNGSKMWISH
 AEHAELFLVFANVDPSSGYRGITCFLVDRDTGEGFQIGKRENKMGIRASSTCQLTFENVKVPETNILGKIG
 HGYYKAIIGSLNEGRIGIAAQMGLAQGCFDYTIPIYIKERMQFGKRIFDFQLQHQAQVATQLEATRLLT
 YNAARLVEAGRPFIKEASMAKYAYASEVAGLTTSKICIEWMGGVGYTKDYPVEKFFRDAKIGTIYEGASNIQ
 LNTIAKHIDA EY

TRTRPLE - GFP Tag - V

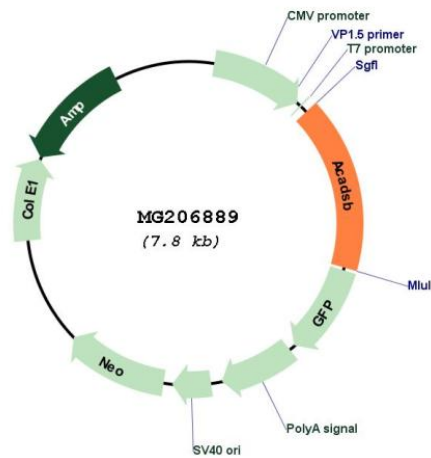
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM_025826

ORF Size:	1296 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:	NM_025826.1 , NP_080102.1
RefSeq Size:	3244 bp
RefSeq ORF:	1299 bp
Locus ID:	66885
UniProt ID:	Q9DBL1
Cytogenetics:	7 F3
Gene Summary:	Has greatest activity toward short branched chain acyl-CoA derivative such as (s)-2-methylbutyryl-CoA, isobutyryl-CoA, and 2-methylhexanoyl-CoA as well as toward short straight chain acyl-CoAs such as butyryl-CoA and hexanoyl-CoA. Can use valproyl-CoA as substrate and may play a role in controlling the metabolic flux of valproic acid in the development of toxicity of this agent (By similarity).[UniProtKB/Swiss-Prot Function]