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Product datasheet for MR210276

Acsbg1 (NM_053178) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Acsbg1 (NM_053178) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Acsbg1
Synonyms:	BG1; Bgm; E230019G03Rik; GR-LACS; Lpd; R75185
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

View online »

ORF Nucleotide Sequence:

>MR210276 representing NM_053178
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCCACGCGGTTCTGAAGCAGGATACTGCTGTCTGTCCAGGGACTCCAACATGCCTGACAGCAGAGATG
ATCAGCAGCAGGGGGCCAGCTTGGGGACCTCCCAAGACAACTCGCAAACCAGCTCCTTAATTGATGGGCA
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GCTGCTGTGGGCCATGTCAGTCACCTTGGAACAGAACCTTACCTGCCCTAGCAATGACCTGAAGCCCTTC
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ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
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Protein Sequence:

>MR210276 representing NM_053178
Red=Cloning site Green=Tags(s)

MPRGSEAGYCCLSRDSNMPDSRDDQQQGASLGTSQDNSQTSSLIDGQTLSKESPSHGLELSAPEKARAAS
LDGAEEALWTTRADGRVRLRLEPFCTQRPYTVHQMFYEALDKYGNLSALGFKRKDKWERISYYQYYLIAR
KVAKGFLKLGLERAHSVAILGFNSPEWFFSAVGTVFAGGIVTGIYTTSSPEACQYISHDCRANVIVVDTQ
KQLEKILKIWKDLPHLKAVVIYQEPPPKKMANVYTMEELIELGQEVPEEALDAIIDTQQPNQCCVLVYTS
GTTGNPKGVMLSQDNITWTARYGSQAGDIQPAEVQQEVVVSYLPLSHIAAQIYDLWTGIQWGAQVCFADP
DALKGTLVNTLREVEPTSHMGVPRVWEKIMERIQEVAAQSGFIRRKMLLWAMSVTLEQNLTCPSNDLKPF
TSRLADYLVLARVRQALGFAKCQKNFYGAAPMTAETQRFFLGLNIRLYAGYGLSESTGPHFMSSPYNYRL
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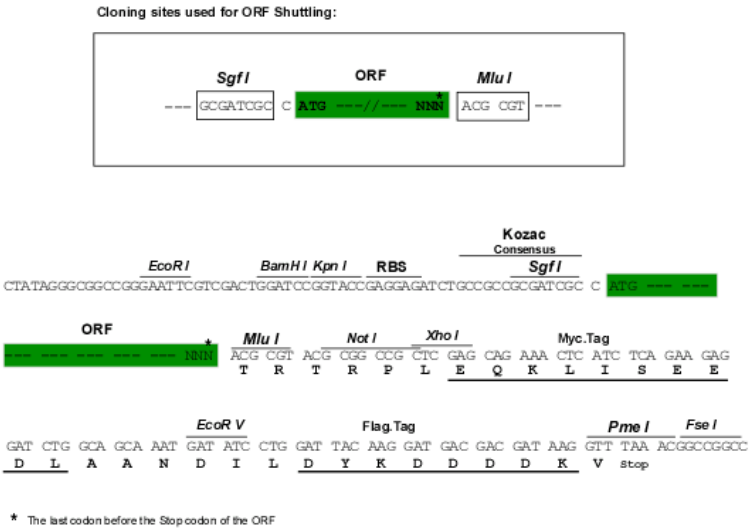
GRLKELIITAGGENVPPVPIEEAVKMELPIISSAMLIGDQRKFLSMLLTLKCTLDPETSEPTDSLTEQAV
EFCQRVGSKASTVSEIVGQRDEAVYQAIHEGIQRVNANAAARPYHIQKWAILQRDFSISGGELGPTMKLK
RLTVLEKYKDIIDSFYQEQKQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9097_b10.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_053178

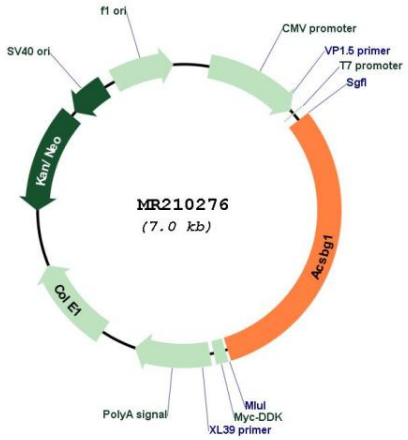
ORF Size: 2163 bp

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_053178.2, NP_444408.1
RefSeq Size:	2775 bp
RefSeq ORF:	2166 bp
Locus ID:	94180
UniProt ID:	Q99PU5
Cytogenetics:	9 A5.3
MW:	80.4 kDa
Gene Summary:	Mediates activation of long-chain fatty acids for both synthesis of cellular lipids, and degradation via beta-oxidation. Able to activate long-chain fatty acids. Can activate diverse saturated, monosaturated and polyunsaturated fatty acids (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR210276