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Product datasheet for RC234773

ACSBG1 (NM_001199377) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ACSBG1 (NM_001199377) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ACSBG1
Synonyms:	BG; BG1; BGM; GR-LACS; LPD
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC234773 representing NM_001199377
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCCACGCAATTCTGGAGCTGGATACGGCTGCCCACACGGGGACCCCAGCATGCTGGACAGCAGAGAGA
CCCCACAGGAGAGCCGGCAGGACATGATTGTGAGGACCACCCAAGAAAAATTGAAAACCAGCTCACTGAC
TGACAGGCAGCCACTCTCCAAAGAGTCCCTGAACCATGCTCTCGAGCTCTCAGTGCCAGAGAAGGTGAAT
AATGCCCAGTGGGATGCTCCAGAGGAGGCGCTGTGGACGACTCGGGCCGATGGGCGGGTGCGCCTGCGCA
TAGACCCCAGCTGCCCACAGCTTCCCTACACTGTGCATCGGATGTTCTACGAGGCCCTGGATAAGTATGG
GGACCTCATCGCTTTGGGCTTCAAGCGCCAGGACAAGTGGGAACACATCTCCTACTCCCAATACTACCTG
CTCGCCCGCAGAGCCGCCAAGGGCTTCCTGAAGCAGGCCCACAGTGTGGCCATCCTCGGCTTCAACTCCC
CGGAGTGGTTCTTCTCGGCAGTGGGCACAGTATTTGCAGGTGGCATCGTCACTGGCATCTACACCACCAG
CTCCCCAGAGGCCTGCCAGTACATCGCTTATGACTGCTGCGCCAATGTCATCATGGTCGACACGCAGAAG
CAGCTGGAAAAGATCCTGAAGATCTGGAAACAGTTGCCACATCTAAAGGCAGTCGTGATATATAAAGAAC
CTCCTCCAAACAAGATGGCCAATGTGTACACGATGGAGGAATTCATGGAGCTGGGGAATGAAGTGCCTGA
GGAAGCCCTGGACGCCATCATTGACACCCAGCAGCCCAACCAGTGCTGTGTGCTAGTCTACACTTCCGGC
ACCACTGGGAACCCCAAGGGCGTGATGCTGAGTCAAGACAATATCACGTGGACGGCACGGTACGGCAGCC
AGGCCGGTGACATCCGGCCGGCAGAAGTCCAGCAGGAGGTGGTAGTCAGCTACCTGCCCCTCAGCCATAT
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GCCCTGAAGGGGAGCCTGGTGAACACGCTGCGGGAGGTGGAGCCCACATCACACATGGGGGTGCCCCGGG
TATGGGAGAAGATCATGGAGCGCATCCAGGAGGTGGCGGCTCAGTCTGGCTTCATCCGGCGAAAGATGCT
GCTGTGGGCCATGTCGGTGACCTTGGAGCAGAACCTCACCTGCCCCGGCAGCGACCTGAAGCCCTTCACA
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TCTGCCTGTGGGGCCGCACCATATTCATGGGCTACCTGAACATGGAGGACAAGACTTGTGAGGCCATCGA
CGAGGAAGGCTGGCTGCACACGGGTGATGCTGGCCGCCTGGACGCCGATGGCTTCCTCTACATCACTGGG
CGCCTCAAAGAATTAATCATCACAGCTGGTGGGGAGAATGTGCCCCCTGTGCCCATCGAGGAGGCCGTGA
AGATGGAGCTGCCCATCATCAGCAACGCCATGCTCATTGGGGACCAGAGGAAGTTCCTGTCCATGCTGCT
CACCTTGAAGTGCACTCTGGACCCAGACACCTCTGACCAGACTGATAATCTGACTGAACAAGCTATGGAG
TTCTGCCAGAGGGTGGGCAGCAGAGCCACCACAGTGTCCGAGATCATAGAGAAGAAGGATGAGGCCGTGT
ACCAGGCCATCGAAGAGGGGATCCGGAGGGTCAACATGAACGCGGCGGCCCGGCCCTACCACATCCAGAA
GTGGGCCATTCTCGAGAGAGACTTCTCCATTTCGGGTGGAGAGTTGGGTCCCACGATGAAACTGAAACGG
CTCACAGTTTTGGAGAAGTACAAAGGTATCATTGACTCCTTTTACCAAGAGCAAAAAATG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC234773 representing NM_001199377
Red=Cloning site Green=Tags(s)

MPRNSGAGYGCPHGDPSMLDSRETPQESRQDMIVRTTQEKLKTSSLTDRQPLSKESLNHALELSVPEKVN
NAQWDAPEEALWTTRADGRVRLRIDPSCPQLPYTVHRMFYEALDKYGDLIALGFKRQDKWEHISYSQYYL
LARRAAKGFLKQAHSVAILGFNSPEWFFSAVGTVFAGGIVTGIYTTSSPEACQYIAYDCCANVIMVDTQK
QLEKILKIWKQLPHLKAVVIYKEPPPNKMANVYTMEEFMELGNEVPEEALDAIIDTQQPNQCCVLVYTSG
TTGNPKGVMLSQDNITWTARYGSQAGDIRPAEVQQEVVVSYLPLSHIAAQIYDLWTGIQWGAQVCFAEPD
ALKGSLVNTLREVEPTSHMGVPRVWEKIMERIQEVAAQSGFIRRKMLLWAMSVTLEQNLTCPGSDLKPFT
TRLADYLVLAKVRQALGFAKCQKNFYGAAPMMAETQHFFLGLNIRLYAGYGLSETSGPHFMSSPYNYRLY
SSGKLVPGCRVKLVNQDAEGIGEICLWGRTIFMGYLNMEDKTCEAIDEEGWLHTGDAGRLDADGFLYITG
RLKELIITAGGENVPPVPIEEAVKMELPIISNAMLIGDQRKFLSMLLTLKCTLDPDTSDQTDNLTEQAME
FCQRVGSRATTVSEIIEKKDEAVYQAIEEGIRRVNMNAAARPYHIQKWAILERDFSISGGELGPTMKLKR
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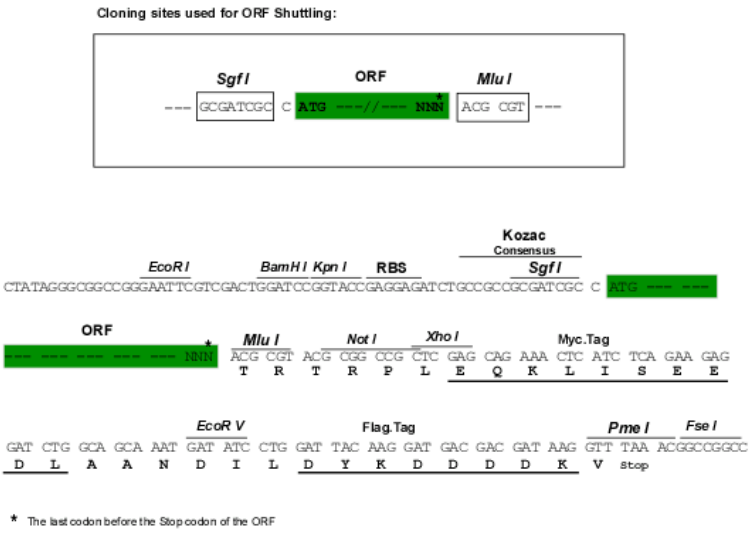
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001199377

ORF Size: 2160 bp

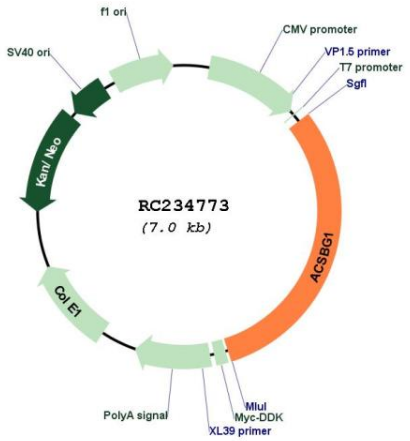
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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_001199377.2
RefSeq Size:	2998 bp
RefSeq ORF:	2163 bp
Locus ID:	23205
UniProt ID:	Q96GR2
Cytogenetics:	15q25.1
MW:	81.3 kDa
Gene Summary:	The protein encoded by this gene possesses long-chain acyl-CoA synthetase activity. It is thought to play a central role in brain very long-chain fatty acids metabolism and myelinogenesis. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC234773