

Product datasheet for **RG234773**

ACSBG1 (NM_001199377) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ACSBG1 (NM_001199377) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ACSBG1
Synonyms:	BG; BG1; BGM; GR-LACS; LPD
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RG234773 representing NM_001199377
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCCACGCAATTCTGGAGCTGGATACGGCTGCCACACGGGGACCCAGCATGCTGGACAGCAGAGAGA
 CCCACAGGAGAGCCGGCAGGACATGATTGTGAGGACCACCAAGAAAAATTGAAAACCAGCTCACTGAC
 TGACAGGCAGCCACTCTCCAAAGAGTCCCTGAACCATGCTCTCGAGCTCTCAGTGCCAGAGAAGGTGAAT
 AATGCCAGTGGGATGCTCCAGAGGAGGCGCTGTGGACGACTCGGGCCGATGGGCGGGTGCCTGCGCA
 TAGACCCAGCTGCCACAGCTTCCCTACACTGTGCATCGGATGTTCTACGAGGCCCTGGATAAGTATGG
 GGACCTCATCGCTTTGGCTTCAAGCGCCAGGACAAGTGGGAACACATCTCTACTCCCAATACTACCTG
 CTGCCCCGAGAGCCCAAGGGCTTCTGAAGCAGGCCACAGTGTGGCCATCTCGGCTTCAACTCCC
 CGGAGTGGTTCTCTCGCAGTGGGCACAGTATTTGCAGGTGGCATCGTCACTGGCATCTACACCACCAG
 CTCCCCAGAGGCCTGCCAGTACATCGCTTATGACTGCTGCGCCAATGTCATCATGGTCGACACGCAGAAG
 CAGCTGGAAGATCCTGAAGATCTGGAACAGTTGCCACATCTAAAGGCAGTCGTGATATATAAAGAAC
 CTCTCCAAACAAGATGGCCAATGTGTACACGATGGAGGAATTCATGGAGCTGGGAATGAAGTGCTGA
 GGAAGCCCTGGACGCCATCATTGACACCCAGCAGCCCAACCAGTGTGTGTGCTAGTCTACACTTCCGGC
 ACCACTGGGAACCCCAAGGGCGTGATGCTGAGTCAAGACAATATCACGTGGACGGCAGCGTACGGCAGCC
 AGGCCGGTGACATCCGGCCGGCAGAAAGTCCAGCAGGAGGTGGTAGTCAGTACCTGCCCTCAGCCATAT
 TGCCGCCAGATCTACGACCTGTGGACAGGCATCCAGTGGGGGGCCAGGTTTGCCTTCCGAACCCGAC
 GCCCTGAAGGGGAGCCTGGTGAACACGCTGCGGGAGGTGGAGCCACATCACACATGGGGGTGCCCGGG
 TATGGGAGAAGATCATGGAGCGCATCCAGGAGGTGGCGGCTCAGTCTGGCTTTCATCCGGCGAAAGATGCT
 GCTGTGGGCCATGTCGGTGACCTTGGAGCAGAACCCTCACCTGCCCGGCAGCGACCTGAAGCCCTTCACA
 ACCAGACTGGCAGATTACCTGGTGTAGCCAAGGTTCCGACGGCACTGGGATTTGCCAAGTGTCAAAGA
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 TGCGGGCTACGGCCTCAGTGAGACCTCAGGCCCCACTTCATGTCCAGTCCCTACAACCTACCGGCTGTAC
 AGCTCAGGCAAGTTGGTCCCGGCTGTCCGGTGAAGCTGGTGAACCAGGACGCAGAGGGCATTGGCGAGA
 TCTGCCTGTGGGGCCGACCATATTCATGGGCTACCTGAACATGGAGGACAAGACTTGTGAGGCCATCGA
 CGAGGAAGGCTGGCTGCACACGGGTGATGCTGGCCGCTGGACGCGGATGGCTTCTCTACATCACTGGG
 CGCCTCAAAGAATTAATCATCACAGCTGGTGGGAGAATGTGCCCTGTGCCATCGAGGAGGCCGTGA
 AGATGGAGCTGCCATCATCAGCAACGCCATGCTCATTGGGGACCAGAGGAAGTTCTGTCCATGCTGCT
 CACCTTGAAGTGCCTCTGGACCCAGACACCTCTGACCAGACTGATAATCTGACTGAACAAGCTATGGAG
 TTCTGCCAGAGGGTGGGACGAGAGCCACCACAGTGTCCGAGATCATAGAGAAGAAGGATGAGGCCGTGT
 ACCAGGCCATCGAAGAGGGGATCCGGAGGGTCAACATGAACGCGGGCGGCCCGCCCTACCACATCCAGAA
 GTGGGCCATTCTCGAGAGAGACTTCTCCATTTCCGGTGGAGAGTTGGGTCCCACGATGAAACTGAAACGG
 CTCACAGTTTTGGAGAAGTACAAAGGTATCATTGACTCCTTTTACCAAGAGCAAAAAATG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG234773 representing NM_001199377
 Red=Cloning site Green=Tags(s)

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MPRNSGAGYGCPHGDPSMLDSRETPQESRQDMIVRTTQEKLKTTSSLTDRQPLSKESLNHALELVPEKVN
NAQWDAPEEALWTRADGRVRLRIDPSCPQLPYTVHRMFYEALDKYGDLIAGFKRQDKWEHISYSQYYL
LARRAAKGLKQAHVAAILGFNSPEWFFSAVGTVFAGGIYVGIYTTSSPEACQYIAYDCCANVIMVDTQK
QLEKILKIWKQLPHLKAVVIYKEPPPNKMANVYTMEEFMELGNEVP EEALDAIIDTQQPNQCCVLVYTSG
TTGNPKGVMLSQDNITWTARYGSQAGDIRPAEVQEQEVVVSYLPLSHIAAQIYDLWTGIQWGAQVCF AEPD
ALKGSLVNTLREVEPTSHMGVPRVWEKIMERIQEVAAQSGFIRRKMLLWAMSVTLEQNLTCPGSDLKPFT
TRLADYLVLAKVRQALGFACQKNFYGAAPMAETQHFFLGLNIRLYAGYGLSETSGPHFMSSPYNYRLY
SSGKLVPGCRVKLVNQDAEGIGEICLWGRTIFMGYLNMEDKTCEAIDEEGLWHTGDAGRLDADGFLYITG
RLKELIITAGGENVPPVPIEEAVKMELPIISNAMLIGDQRKFLSMLLTLKCTLDPDTSDQTDNLTEQAME
FCQRVGSRATTVSEIIIEKKDEAVYQAIIEEGIRRVNMNAAARPYHIQKWAILERDFISGGELGPTMKLKR
LTVLEKYKGIIDSFYQEQKM
  
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TRTRPLE - GFP Tag - V

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

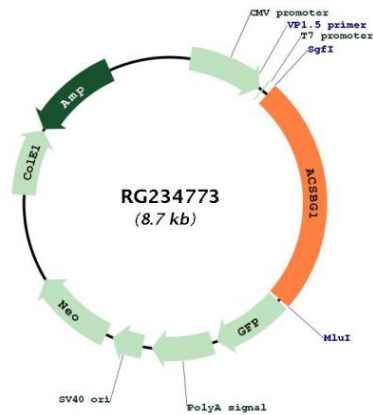
Locus ID: 23205

UniProt ID: [Q96GR2](#)

Cytogenetics: 15q25.1

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 RG234773