

Product datasheet for **RG203219**

ACSBG1 (NM_015162) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ACSBG1 (NM_015162) 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:

>RG203219 representing NM_015162
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGCCACGCAATTCTGGAGCTGGATACGGCTGCCACACGGGGACCCAGCATGCTGGACAGCAGAGAGA
 CCCACAGGAGAGCCGGCAGGACATGATTGTGAGGACCACCAAGAAAAATTGAAAACCAGCTCACTGAC
 TGACAGGCAGCCACTCTCCAAAGAGTCCCTGAACCATGCTCTCGAGCTCTCAGTGCCAGAGAAGGTGAAT
 AATGCCCAGTGGGATGCTCCAGAGGAGGCGCTGTGGACGACTCGGGCCGATGGGCGGGTGCCTGCGCA
 TAGACCCAGCTGCCACAGTTCCTACACTGTGCATCGGATGTTCTACGAGGCCCTGGATAAGTATGG
 GGACCTCATCGCTTTGGCTTCAAGCGCCAGGACAAGTGGGAACACATCTCTACTCCCAATACTACCTG
 CTGCCCCGAGAGCCCAAGGGCTTCTGAAGCTCGGCTGAAGCAGGCCACAGTGTGGCCATCTCTCG
 GCTTCACTCCCGGAGTGGTTCTCTCGGCAGTGGGCACAGTATTTGCAGGTGGCATCGTCACTGGCAT
 CTACACCACAGCTCCCCAGAGGCTGCCAGTACATCGCTTATGACTGCTGCGCCAATGTCATCATGGTC
 GACACGAGAAGCAGCTGAAAAAGATCCTGAAGATCTGGAACAGTTGCCACATCTAAAGGCAGTCGTGA
 TATATAAAGAACCTCTCCAAACAAGATGGCCAATGTGTACACGATGGAGGAATTCATGGAGCTGGGAA
 TGAAGTGCTGAGGAAGCCCTGGACGCCATCATTGACACCAGCAGCCCAACCAGTGTGTGTGCTAGTC
 TACACTCCGGCACCACTGGGAACCCCAAGGGCGTGATGCTGAGTCAAGACAATATCACGTGGACGGCAC
 GGTACGGCAGCCAGGCCGGTGACATCCGGCCGGCAGAAGTCCAGCAGGAGGTGGTAGTCAGTACCTGCC
 CCTCAGCCATATTGCCGCCAGATCTACGACCTGTGGACAGGCATCCAGTGGGGGGCCAGGTTTGCTTT
 GCCGAACCCGACGCCCTGAAGGGGAGCCTGGTGAACACGCTGCGGGAGGTGGAGCCACATCACACATGG
 GGTGCCCGGGTATGGGAGAAGATCATGGAGCGCATCCAGGAGGTGGCGGCTCAGTCTGGCTTCATCCG
 GCGGAAGATGCTGCTGTGGGCCATGTCGGTGACCTTGGAGCAGAACCTCACCTGCCCGGCAGCGACCTG
 AAGCCCTTACAACCAGACTGGCAGATTACCTGGTGTAGCCAAGGTTGCCAGGCACTGGGATTTGCCA
 AGTGTCAAAGAACTTCTATGGAGCGGCCCCATGATGGCAGAGACACAGCACTTCTTCTGGGTCTCAA
 CATCCGCTTGATGCGGGCTATGGCCTCAGTGAGACCTCAGGCCCCCACTTCATGTCCAGTCCCTACAAC
 TACCGGCTGTACAGCTCAGGCAAGTTGGTGCCCGGCTGTCGGGTGAAGCTGGTGAACCAGGACGCAGAGG
 GCATTGGTGAGATCTGCCTGTGGGGCCGACCATATTCATGGGCTACCTGAACATGGAGGACAAGACTTG
 TGAGGCCATCGACGAGGAAGGCTGGCTGCACACGGGTGATGCTGGCCGCTGGACGCCGATGGCTTCCTC
 TACATCACTGGGCGCTCAAAGAATTAATCATCACAGCTGGTGGGAGAATGTGCCCCCTGTGCCATCG
 AGGAGGCCGTGAAGATGGAGCTGCCATCATCAGCAATGCCATGCTCATTGGGGACCAGAGGAAGTTCCT
 GTCCATGCTGCTCACCTTGAAGTCACTCTGGACCCAGACACCTCTGACCAGACTGATAATCTGACTGAA
 CAAGCTGTGGAGTTCTGCCAGAGGGTGGGCAGCAGAGCCACCACAGTGTCCGAGATCATAGAGAAGAAGG
 ATGAGGCCGTGTACCAGGCCATCGAAGAGGGGATCCGAGGGTCAACATGAACCGGGCGGCCCGCCCTA
 CCACATCCAGAAGTGGGCCATTCTCGAGAGAGACTTCTCCATTTCCGGTGGAGAGTTGGTCCCACGATG
 AAACCTGAAACGGCTCACAGTTTTGGAGAAGTACAAAGGTATCATTGACTCCTTTTACCAAGAGCAAAAA
 TG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG203219 representing NM_015162
 Red=Cloning site Green=Tags(s)

MPRNSGAGYGCPHGDPSMLDSRETPQESRQDMIVRTTQEKLKTTSSLTDRQPLSKESLNHALELVPEKVN
 NAQWDAPEEALWTRADGRVRLRIDPSCPQLPYTVHRMFYEALDKYGDLIAGFKRQDKWEHISYSQYYL
 LARRAAKGFLLKGLKQAHSVAIILGFNSPEWFFSAVGTVFAGGIVTGIYTTSSPEACQYIAYDCCANVIMV
 DTQKQLEKILKIWKQLPHLKAVVIYKEPPPNKMANVYTMEEFMELGNEVP EEALDAIIDTQQPNQCCVLV
 YTSGTTGNPKGVMLSQDNITWTARYGSQAGDIRPAEVQQEVVVSYLPLSHIAAQIYDLWTGIQWGAQVCF
 AEPDALKGSLVNTLREVEPTSHMGVPRVWEKIMERIQEVAAQSGFIRRKMLLWAMSVTLEQNLTCPGSDL
 KPFTTRLADYLVLAKVRQALGFAKQKNFYGAAPMAETQHFFLGLNIRLYAGYGLSETSGPHFMSSPYN
 YRLYSSGKLVPGCRVKLVNQDAEGIGEICLWGRTIFMGYLNMEDKTCEAIDEEGWLHTGDAGRLDADGFL
 YITGRLLKELIITAGGENVPPVPIEEAVKMELPIISNAMLIGDQRKFLSMLLTLKCTLDPDTSDQTDNLTE
 QAVEFCQRVGSRATTVSEIIEKKDEAVYQAIIEGIRRVNMNAAARPYHIQKWAILERDFISGGELGPTM
 KLRLLTVLEKYKGIIDSFYQEQKM

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_015162

ORF Size: 2172 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_015162.2](#)

RefSeq Size: 2867 bp

RefSeq ORF: 2175 bp

Locus ID: 23205

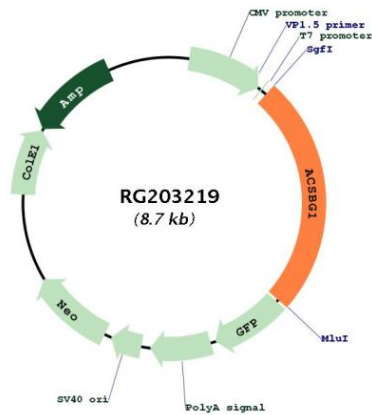
UniProt ID: [Q96GR2](#)

Cytogenetics: 15q25.1

Domains: AMP-binding

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 RG203219