

Product datasheet for **RC238471**

ACSBG2 (NM_001289180) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ACSBG2 (NM_001289180) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ACSBG2
Synonyms:	BGR; BRGL; PRTD-NY3; PRTDNY3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC238471 representing NM_001289180
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGC**C

ATGAAGAAGAACAACAATTGTACTCTTGGGATGATTTTCATGGAACCTGGCAGAAGTATCCCTGACACCC
 AACTGGAGCAGGTTCATCGAGAGCCAGAAGGCGAATCAATGCGCAGTGCTCATCTACACTTCAGGGACCAC
 AGGCATACCCAAGGGAGTGATGCTCAGTCATGACAACATCACGTGGATTGCAGGAGCAGTGACAAAGGAC
 TTAAACTGACAGACAAGCATGAGACGGTGGTGTAGCTACCTCCCACTCAGCCATATTGCAGCACAGATGA
 TGGACATCTGGGTACCCATAAAGATTGGGGCGCTCACATACTTTGCTCAAGCAGATGCTCTCAAGGGCAC
 CTTGGTAACTCTAAAGGAGGTAAAACCTACTGTCTTCATTGGAGTGCCTCAAATTTGGGAGAAGATA
 CATGAGATGGTGAAGAAAAATAGTGCCAAGTCCATGGGCTTGAAGAAGAAGGCATTCGTGTGGGCAAGAA
 ACATTGGCTTCAAGGTCAACTCAAAAAAGATGTTGGGGAATATAATACTCCCGTGAGCTACCGCATGGC
 TAAGACTCTCGTGTTCAGCAAAGTCAAGACATCCCTTGGCTTGGATCACTGTCACTCTTTTATCAGTGGG
 ACTGCGCCCTCAACCAAGAGACTGCCGAGTTCTTTCTAAGCTTGGACATACCTATAGGCGAGTTGTATG
 GGTTGAGTGAGAGCTCGGGACCCACACGATATCCAACCAGAATAACTACAGGCTTCTAAGCTGTGGCAA
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 AATCCTTATCACTGCTGGTGGTGAAGATGTGCCCCCATTCCTGTTGAGACCTTGGTTAAGAAGAAGATC
 CCCATCATCAGTAACGCCATGTTAGTAGGAGATAAACTGAAGTTTCTGAGCATGTTGCTGACGCTGAAGT
 GTGAGATGAATCAGATGAGCGGAGAACCCTCTGGACAAGCTGAACCTCGAGGCCATCAACTTCTGTGGGG
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 CAGCAAGGCATCAATGCTGTGAACCAGGAAGCCATGAACAATGCACAGAGGATTGAAAAGTGGGTACATCT
 TGGAGAAGGACTTTTCCATCTATGGTGGAGAGCTAGGTCCAATGATGAACTTAAGAGACATTTTGTAGC
 CCAGAAATACAAAAACAATTGATCAGATGTACCAC

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Protein Sequence:

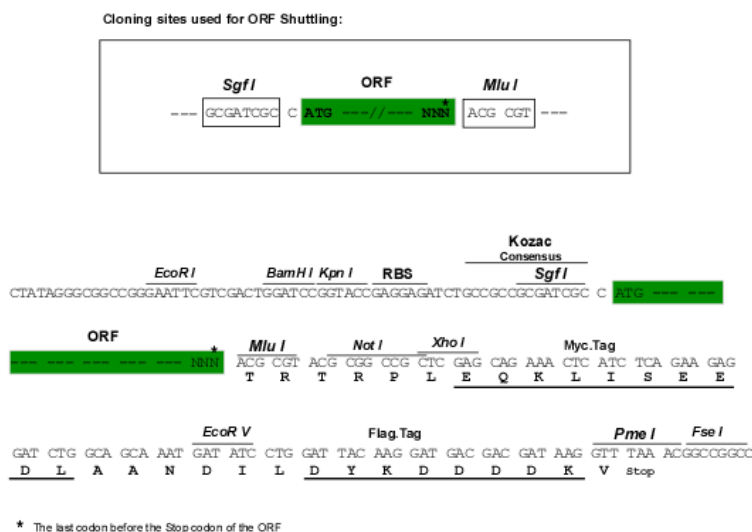
>RC238471 representing NM_001289180
 Red=Cloning site Green=Tags(s)

MKKNNNLYSWDDFMELGRSIPDTQLEQVIESQKANQCAVLIYTSGTTGIPKGVMLSHDNITWIAGAVTKD
 FKLTDKHETVVSYLPLSHIAAQMMDIWVPIKIGALTYFAQADALKGTLVSTLKEVKPTVFIGVPQIWEKI
 HEMVKKNSAKSMGLKKKAFVWARNIGFKVNSKKMLGKYNTPVSYRMAKTLVFSKVKTSGLDHCFSFISG
 TAPLNQETAEFFLSLDIPIGELYGLSESSGPHITSNQNRYRLSCGKILTGCKNMLFQQNKDGIIEICLW
 GRHIFMGYLESETETTEIDDEGWLHSGDLGQLDGLFLYVTGHIKEILITAGGENVPPIPVETLVKKKI
 PIISNAMLVGDCLKFLSMLLTLKCEMNQMSGEPLDKLNFEAINFCRGLGSQASTVTEIVKQDPLVYKAI
 QQGINAVNQEAMNNAQRIEKWVILEKDFSIYGGEGLGPMMLKRHFVAQKYKKQIDHMYH

TRTRPLE**QKL**ISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001289180

ORF Size: 1437 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_001289180.1](#), [NP_001276109.1](#)

RefSeq Size: 2508 bp

RefSeq ORF: 1440 bp

Locus ID: 81616

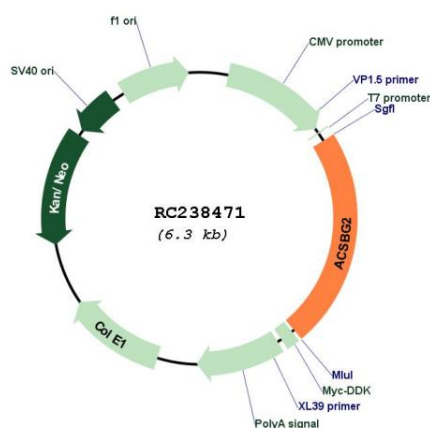
UniProt ID: Q5FVE4

Cytogenetics: 19p13.3

MW: 54 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. Also able to activate very long-chain fatty acids; however, the relevance of such activity is unclear in vivo. Has increased ability to activate oleic and linoleic acid. May play a role in spermatogenesis. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC238471