

Datasheet for ABIN3088209

ACSBG1 Protein (AA 1-724) (Strep Tag)



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Quantity:	250 μg
Target:	ACSBG1
Protein Characteristics:	AA 1-724
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This ACSBG1 protein is labelled with Strep Tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA

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Product Details				
Brand:	AliCE®			
Sequence:	MPRNSGAGYG CPHGDPSMLD SRETPQESRQ DMIVRTTQEK LKTSSLTDRQ PLSKESLNHA			
	LELSVPEKVN NAQWDAPEEA LWTTRADGRV RLRIDPSCPQ LPYTVHRMFY EALDKYGDLI			
	ALGFKRQDKW EHISYSQYYL LARRAAKGFL KLGLKQAHSV AILGFNSPEW FFSAVGTVFA			
	GGIVTGIYTT SSPEACQYIA YDCCANVIMV DTQKQLEKIL KIWKQLPHLK AVVIYKEPPP			
	NKMANVYTME EFMELGNEVP EEALDAIIDT QQPNQCCVLV YTSGTTGNPK GVMLSQDNIT			
	WTARYGSQAG DIRPAEVQQE VVVSYLPLSH IAAQIYDLWT GIQWGAQVCF AEPDALKGSL			
	VNTLREVEPT SHMGVPRVWE KIMERIQEVA AQSGFIRRKM LLWAMSVTLE QNLTCPGSDL			
	KPFTTRLADY LVLAKVRQAL GFAKCQKNFY GAAPMMAETQ HFFLGLNIRL YAGYGLSETS			
	GPHFMSSPYN YRLYSSGKLV PGCRVKLVNQ DAEGIGEICL WGRTIFMGYL NMEDKTCEAI			
	DEEGWLHTGD AGRLDADGFL YITGRLKELI ITAGGENVPP VPIEEAVKME LPIISNAMLI			
	GDQRKFLSML LTLKCTLDPD TSDQTDNLTE QAMEFCQRVG SRATTVSEII EKKDEAVYQA			

IEEGIRRVNM NAAARPYHIQ KWAILERDFS ISGGELGPTM KLKRLTVLEK YKGIIDSFYQ EQKM

Sequence without tag. The proposed Strep-Tag is based on experience s with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.

Characteristics:

Key Benefits:

- Made in Germany from design to production by highly experienced protein experts.
- Protein expressed with ALiCE® and purified in one-step affinity chromatography
- These proteins are normally active (enzymatically functional) as our customers have reported (not tested by us and not guaranteed).
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a **made-to-order protein** and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

The big advantage of ordering our **made-to-order proteins** in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

Expression System:

- ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from Nicotiana tabacum c.v.. This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require posttranslational modifications.
- During lysate production, the cell wall and other cellular components that are not required for
 protein production are removed, leaving only the protein production machinery and the
 mitochondria to drive the reaction. During our lysate completion steps, the additional
 components needed for protein production (amino acids, cofactors, etc.) are added to
 produce something that functions like a cell, but without the constraints of a living system all that's needed is the DNA that codes for the desired protein!

Concentration:

- The concentration of our recombinant proteins is measured using the absorbance at 280nm.
- · The protein's absorbance will be measured against its specific reference buffer.
- · We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.

Purification:

One-step Strep-tag purification of proteins expressed in Almost Living Cell-Free Expression System (AliCE®).

Product Details		
Purity:	> 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).	
Grade:	custom-made	
Target Details		
Target:	ACSBG1	
Alternative Name:	ACSBG1 (ACSBG1 Products)	
Background:	Long-chain-fatty-acidCoA ligase ACSBG1 (EC 6.2.1.3) (Acyl-CoA synthetase bubblegum famil member 1) (hBG1) (hsBG) (hsBGM) (Lipidosin),FUNCTION: Catalyzes the conversion of fatty acids such as long-chain and very long-chain fatty acids to their active form acyl-CoAs for bot synthesis of cellular lipids, and degradation via beta-oxidation (PubMed:12975357, PubMed:24269233, PubMed:10954726). Can activate diverse saturated, monosaturated and polyunsaturated fatty acids (PubMed:10954726). {ECO:0000269 PubMed:10954726, ECO:0000269 PubMed:12975357, ECO:0000269 PubMed:24269233}.	
Molecular Weight:	81.3 kDa	
UniProt:	Q96GR2	
Application Details		
Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.	
Comment:	ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from Nicotiana tabacum c.v This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require post-translational modifications. During lysate production, the cell wall and other cellular components that are not required for protein production are removed, leaving only the protein production machinery and the mitochondria to drive the reaction. During our lysate completion steps, the additional components needed for protein production (amino acids, cofactors, etc.) are added to produce something that functions like a cell, but without the constraints of a living system - all that's needed is the DNA that codes for the desired protein!	

For Research Use only

Restrictions:

Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer. Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol Might differ depending on protein.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months