

Datasheet for ABIN3135656

FGD6 Protein (AA 1-1399) (Strep Tag)



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Overview

Quantity:	250 µg
Target:	FGD6
Protein Characteristics:	AA 1-1399
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This FGD6 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Brand:	AliCE®
Sequence:	<p>MTSAAELKKP PLAPKPKLVG TNNKPPPPPI APKPDIGSAS VPRLTKKTKP AIAPKPKVPT</p> <p>NSVVQDIKHP PSKKPTLNLE EREPELPEST GKSNCCKDVRD PHSDYILPTC SCSSGCIHEP</p> <p>RTRETQCVEQ LVLEPLGMKE NLENSKNGES SKRGSSWDSS SEKCRGQSGV VLKASILEEK</p> <p>LKEVLTQQRS PCGSPGRHRA PKKPEMNGDH SCTRQIRIEF ADVSSSLTGF EKVPAHHNCH</p> <p>PQLPRDESQT LKTCQDGS AE SRGHTDSCEP ENKRVASDGI SQKTEVKGLG PLEIHLLPYT</p> <p>SKFPTPKPRK THAAARLRQ KHVDTPGEST EEPGNSNNGS SCLEEDYCLK NNVKSVLRQN</p> <p>ALYNQGPVDE VRPANQRALT GDSNSGGQDS VGSQKAVQQQ TPSLTDSSL TSDSSSGSVS</p> <p>PAVDKETTYT QCSTQPLSLP KQVTSACTDQ PPATCNPEVS APPIQKESSS SRIIPKKPQR</p> <p>HSLPAAGVLK KAASEELVEK SSSGKETNVE KGLHRNYLHH PGPPNHGASA SPFDMPNPTS</p> <p>EKPVWKLPH ILPFSGSPEA LKRVTLSLNN EPSVSLTKPR AKSLSAVDAD RCNKPCCKDPP</p> <p>KKTSFKKLIN VKLSIGFIKS DFQKIRSKSC QHGDVSAGHP LAREPKGLES DWQGLATGEE</p>

KRSKPTKAHS AENCLESQK VKSWGQSSAV NGQRAESLDD RILSRHTSCT GDFGPEYENV
RHYEEIPEYE NLPFVMAGRN TPDLGWQNSS SVEDTDASLY EVEEPYNAPD GQLQLDPRHQ
PCSSGTSQEG KDALHLGLSD LPSDEEVINS SDEDDVSSSES SKGEPDPLED KQDEDAGMK
KVHHIAKEIM SSEKVFDVL KLLHIDFRGA VAHASRQLGK PVIEDRILNQ ILYYLPQLYE
LNRDLLKELE ERMLTWTEQQ RIADIFVKKG PYLKMYSTYI KEFDKNVALL DEQCKKNPGF
AAVVREFEMS PRCANLALKH YLLKPVQRIP QYRLLLT DYL KNLLEDSDVH RDTQDALAVV
IEVANHANDT MKQGDNFQKL MQIQYSLSGH HEIVQGRVF LKEGTLMKLS RKVMQPRMFF
LFNDALLYTT PMQSGMYKLN NMLSLAGMKV RKPTQEAYQN ELKIESVERS FILSASSAAE
RDDWLEAISS SIEEYAKKRI TFCPSRSLDE DSERKEEVSP LGAKAPIWIP DTRATMCMIC
TSEFTLTWRR HHCRACGKIV CQACSSNKYG LDYLGKQLAR VCEHCFQELQ KLDHQLSPRV
GSPGNHKSPS SALSSVLHSI PSGRKQKKIP AALKEVSANT EDSTMSGYLY RSKGSKKPWK
HLWFKVKNKV LYTYAASEDV AALESQPLL GFTVTLVKDEN SESKVFQLLH KGMVFYVFKA
DDAHSTQRWI DAFQEGTVL

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 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

Product Details

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®).
Purity:	> 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).
Grade:	made-to-order

Target Details

Target:	FGD6
Alternative Name:	Fgd6 (FGD6 Products)
Background:	FYVE, RhoGEF and PH domain-containing protein 6,FUNCTION: May activate CDC42, a member of the Ras-like family of Rho- and Rac proteins, by exchanging bound GDP for free GTP. May play a role in regulating the actin cytoskeleton and cell shape (By similarity). {ECO:0000250}.
Molecular Weight:	155.2 kDa
UniProt:	Q69ZL1

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 <i>Nicotiana tabacum</i> 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.

Application Details

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!

Restrictions: For Research Use only

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