Datasheet for ABIN3134652

Ras Protein-Specific Guanine Nucleotide-Releasing Factor 2 (RASGRF2) (AA 1-1189) protein (Strep Tag)

Go to Product page

Overview

Quantity:	250 µg
Target:	Ras Protein-Specific Guanine Nucleotide-Releasing Factor 2 (RASGRF2)
Protein Characteristics:	AA 1-1189
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	Strep Tag
Application:	Western Blotting (WB), ELISA, SDS-PAGE (SDS)

Product Details

Brand:	AliCE®
Sequence:	MQKSVRYNEG HALYLAMLAR KEGTKRGFLS KKAAEASRWH EKWFALYQNV LFYFEGEQSG RPAGMYLLEG CSCERTPAPP RTNAGPAGAR DALDKQYYFT VLFGHDGQKP LELRCEEEQA GKEWMEAIHQ ASYADILIER EVLMQKYIHL VQIVETEKIA TNQLRHQLED QDTEIERLKS EIVALNKTKE RMRPYHVHQE EEDPDIKKIK KVQSFMRGWL CRRKWKTIVQ DYICSPHAES MRKRNQIVFT MVEAETEYVH QLYILVNGFL RPLRMAASSK KPPINHDDVS SIFLNSETIM FLHEIFHQGL KARLANWPTL VLADLFDILL PMLNIYQEFV RNHQYSLQVL ANCKQNRDFD KLLKQYEANP ACEGRMLETF LTYPMFQIPR YIITLHELLA HTPHEHVERK SLEFAKSKLE ELSRVMHDEV SDTENIRKNL AIERMIVEGC DILLDTSQTF IRQGSLIQVP SVERGKLSKV RLGSLSLKKE GERQCFLFTK HFLICTRSSG GKLHLLKTGG VLSLIQCTLI EEPDGSDDDP KGSGHMFGHL DFKIVVEPPD AASFTVVLLA PSRQEKAAWM SDISQCVDNI RCNGLMTIVF EENSKVTVPH MIKSDARLHK DDTDICFSKT LNSCKVPQIR YASVERLLER LTDLRFLSID

FLNTFLHTYR IFTTATVVLA KLSDIYKRPF TSIPVRSLEL FFATSQNNRE HLVDGKSPRL CRKFSSPPPL AVSRTSSPVR ARKLSLTSSL NSRIGALDLT NSSSSSSPTT TTHSPAASPP PHTAVLESAP ADKAGDSADM SPCRSPTTPR HLRYRQPGGQ VADSAHCSVS PASAFAIATA AAGHGSPPGF NNERTCDKEF IIRRTATNRV LNVLRHWVSK HAQDFELNNE LKMNVLNLLE EVLRDPDLLP QERKATANIL RALSQDDQDD IHLKLEDIIQ MTDCPKAECF ETLSAMELAE QITLLDHIVF RSIPYEEFLG QGWMKLDKNE RTPYIMKTSQ HFNEMSNLVA SQIMNYADIS SRANAIEKWV AVADICRCLH NYNGVLEITS ALNRSAIYRL KKTWAKVSKQ TKALMDKLQK TVSSEGRFKN LRETLKNCNP PAVPYLGMYL TDLAFIEEGT PNFTEEGLVN FSKMRMISHI IREIRQFQQT AYRIDQQPKV IQYLLDKALV IDEDSLYELS LKIEPRLPA

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 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!

Product Details

	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:	custom-made

Target Details

Target:	Ras Protein-Specific Guanine Nucleotide-Releasing Factor 2 (RASGRF2)
Alternative Name:	Rasgrf2 (RASGRF2 Products)
Background:	Ras-specific guanine nucleotide-releasing factor 2 (Ras-GRF2) (Ras guanine nucleotide exchange factor 2),FUNCTION: Functions as a calcium-regulated nucleotide exchange factor activating both Ras and RAC1 through the exchange of bound GDP for GTP. Preferentially activates HRAS in vivo compared to RRAS based on their different types of prenylation. Functions in synaptic plasticity by contributing to the induction of long term potentiation. {ECO:0000269|PubMed:10733575, ECO:0000269|PubMed:11500499, ECO:0000269|PubMed:14749369, ECO:0000269|PubMed:15029245, ECO:0000269|PubMed:16407208, ECO:0000269|PubMed:16467520, ECO:0000269|PubMed:9032266, ECO:0000269|PubMed:9707409}.
Molecular Weight:	135.7 kDa
UniProt:	P70392
Pathways:	Neurotrophin Signaling Pathway

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

Application Details

	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!
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