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Datasheet for ABIN3094140

**Neuralized Homolog 4 (Drosophila) (NEURL4) (AA 1-1562)
protein (Strep Tag)**

Overview

Quantity:	1 mg
Target:	Neuralized Homolog 4 (Drosophila) (NEURL4)
Protein Characteristics:	AA 1-1562
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	Strep Tag
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Sequence:	MAAGSGGSGG SGGGPGPGPG GGGGPSGSGS GPGSNGGLGS GGELHPRTGR LVSLSACGRT ARRQQPGQEF NHGLVLSREP LRDGRVFTVR IDRKVNSWSG SIEIGVTALD PSVLDFPSSA TGLKGGSWVV SGCSVLRDGR SVLEEYGQDL DQLGEGDRV G VERTVAGELR LWVNGRDCGV AATGLPPRW AVVDLYGKCT QITVLPPEPG FSPPTPIPTP PLEPLAPTED SALAEQGTSA DEAFMVSPAQ ARPETFPNSL ESHNDFANME LSEVVSNTIL SAYNGLLNV NLSSPPAGEG LGSSGAATSP ILTSDALLF HEKCGTLIKL SNNNKTAERR RPLDEFNNGV VMTNRPLRDN EMFEIRIDKL VDKWGSIEI GVTTHNPNSL EYPATMTNLQ SGTIMMSGCG ILTNGKGTRR EYCEFSDEL QEGDHIGLTR KSNSALHFFI NGIDQGVATP LTPPVVYG VV DLYGMAVKVT IVHNNHSDR LRRNNAILRA LSPEGALRRA APAAQAEPER LLFHPNCGQK AAITHEGRTA LRPHATDDFN HGVVLSSRAL RDGEVFQVRI DKMVDKWAGS IEIGVTTHNP AYLQLPSTMT NLRSGTWMMT GNGVMHNGTT ILDEYGHNLD RLKAGDTVGV VRREDGTLHF FVNGMTQGPA AWNVP PGVYA VVDLYGQAAQ ATIVDDVEVA PVPEPLPEGN NQVSPSSPSS GAGGSDLRFH
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QLHGSAVIT NGGRTALRHN CRSEFNDAIV ISNRALRDGE LFEIVIQKMV DRWSGSIEAG
VTAIRPEDLE FPNTMTDIDY DTWMLSGTAI MQDGNTMRNN YGCDLDALGT GARIGMMRTA
KGDLYHFING QDQGAACSGL PPGKEYVAVV DLYGQCVQVS ITNATGPMND SLATSNTATE
KSFPLHSPVA GVAHRFHSTC GKNVTLEEDG TRAVRAAGYA HGLVFSTKEL RAEVFEVKV
EELDEKWAGS LRLGLTTLAP GEMGPGAGGG GGPLPPSLPE LRTKTTWMVS SCEVRRDGQL
QRMNYGRNLE RLGVGSRVGV RRGADDTMHI LVDGEDMGPA ATGIAKNVWA VLDLYGPVRG
VSIVSSTRLE ESEGTQPPSP SSDTGSEEEE DDEGEEHGLG GQNEVGIIPT TLEFLENHGK
NILLSNGNRT ATRVASYNQG IVVINQPLVP QLLVQVRIDF LNRQWTSSLV LGVITCAPER
LNFPASACAL KRAAWLLRGR GVFNHGLKIC EKFGPNLDTG PEGTILGLRL DSSGGLHLHV
NGVDQGVAVP DVPQPCALV DLYGQCEQVT IVNPEPGAAS GKSAGTQGDM EKADMVDGIK
ESVCWGPPPA ASPLKSCEYH ALCSRFQELL LLPEDYFMPP PKRSLCYCES CRKLRGDEAH
RRRGEPPEY ALPFGWCERN LRVNPRLEAG TLTKKWHMAY HGSNVAVRR VLDRGELGAG
TASILSCRPL KGEPGVGFE PGENCAPPE EQPPPVLLSP SLQYAGAETL ASKVQFRDPK
SQRTHQAQVA FQVCVRPGSY TPGPPSAALG EPPDPHFSPA ELEWVTKEKG ATLLCALLVR VE

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 by multi-step, protein-specific process to ensure correct folding and modification.
- 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 will ensure that you receive a correctly folded 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.

Product 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!

Concentration:

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

Purification:	Two step purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®): 1. In a first purification step, the protein is purified from the cleared cell lysate using StrepTag capture material. Eluate fractions are analyzed by SDS-PAGE. 2. Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.
Purity:	>80 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Endotoxin Level:	Low Endotoxin less than 1 EU/mg (< 0.1 ng/mg)
Grade:	Crystallography grade

Target Details

Target:	Neuralized Homolog 4 (Drosophila) (NEURL4)
Alternative Name:	NEURL4 (NEURL4 Products)
Background:	Neuralized-like protein 4,FUNCTION: Promotes CCP110 ubiquitination and proteasome-dependent degradation. By counteracting accumulation of CP110, maintains normal centriolar homeostasis and preventing formation of ectopic microtubular organizing centers. {ECO:0000269 PubMed:22261722, ECO:0000269 PubMed:22441691}.
Molecular Weight:	166.9 kDa
UniProt:	Q96JN8

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.
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Comment:	<p>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.</p> <p>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!</p>
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Restrictions:	For Research Use only
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Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer. If you have a special request, please contact us.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)