

Datasheet for ABIN3094140  
**Neutralized Homolog 4 (Drosophila) (NEURL4) (AA 1-1562)  
protein (Strep Tag)**



[Go to Product page](#)

1 Image

Overview

Quantity:	1 mg
Target:	Neutralized 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 DQLGEGDRVG VERTVAGELR LWVNGRDCGV  
AATGLPPRVW AVVDLYGKCT QITVLPPEPG FSPPTPIPTP PLEPLAPTED SALAEQG TSA  
DEAFMVSPAQ ARPETFPSNL ESHNDFANME LSEVVSNTIL SAYNGLLNV NLSSPPAGEG  
LGSSGAATSP ILTSDALLF HEKCGTLIKL SNNNKTAERR RPLDEFNNGV VMTNRPLRDN  
EMFEIRIDKL VDKWGSIEI GVTTHNPNSL EYPATMTNLQ SGTIMMSGCG ILTNGKGTRR  
EYCEFSDEL QEGDHIGLTR KSNSALHFFI NGIDQGVATP LTPPVYGVV DLYGMAVKVT  
IVHNNHSDR LRRNNAILRA LSPEGALRRA APAAQAEPER LLFHPNCGQK AAITHEGRTA  
LRPHATDDFN HGVVLSSRAL RDGEVFQVRI DKMVDKWAGS IEIGVTTHNP AYLQLPSTMT  
NLRSGTWMMT GNGVMHNGTT ILDEYGHNL DRLKAGDTVGV VRREDGTLHF FVNGMTQGPA  
AWNVPVGVYA VVDLYGQAAQ ATIVDDVEVA PVPEPLPEGN NQVSPSSPSS GAGGSDLRFH

QLHGSAVIT NGGRTALRHN CRSEFNDAIV ISNRALRDGE LFEIVIQKMV DRWSGSIEAG  
VTAIRPEDLE FPNTMTDIDY DTWMLSGTAI MQDGNTMRNN YGCDLDALGT GARIGMMRTA  
KGDLYHYFING QDQGAACSGL PPGKEYVAVV DLYGQCVQVS ITNATGPMND SLATSNTATE  
KSFPLHSPVA GVAHRFHSTC GKNVTLEEDG TRAVRAAGYA HGLVFSTKEL RAEVFEVKV  
EELDEKWAGS LRLGLTTLAP GEMGPGAGGG GGPLPPLPE LRTKTTWMVS SCEVRRDQQL  
QRMNYGRNLE RLGVGSRVGV RRGADDTMHI LVDGEDMGPA ATGIAKNVWA VLDLYGPVRG  
VSIVSSTRLE ESEGTQPPSP SSDTGSEGEE DDEGEEHGLG GQNEVGIIPT TLEFLENHGK  
NILLSNGNRT ATRVASYNQG IVVINQPLVP QLLVQVRIDF LNRQWTSSLV LGVITCAPER  
LNFASACAL KRAAWLLRGR GVFNHGLKIC EKFGPNLDTG PEGTILGLRL DSSGGLHLHV  
NGVDQGVAVP DVPQPCALV DLYGQCEQVT IVNPEPGAAS GKSAGTQGDM EKADMVDGIK  
ESVCWGPPPA ASPLKSCEYH ALCSRFQELL LLPEDYFMPP PKRSLCYCES CRKLRGDEAH  
RRRGEPREY ALPFGWCRFN LRVNPRLEAG TLTKKWHMAY HGSNVAARR VLDRGELGAG  
TASILSCRPL KGEPLGVFEE PGENCAPPRE EQPPVLLSP 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.**

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### 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

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- 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.

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Purification:	Two step purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®): <ol style="list-style-type: none"><li>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.</li><li>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.</li></ol>
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

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Target:	Neuralized Homolog 4 (Drosophila) (NEURL4)
Alternative Name:	NEURL4 ( <a href="#">NEURL4 Products</a> )
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:	<a href="#">Q96JN8</a>

## Application Details

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**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:** 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!

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**Restrictions:** For Research Use only

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## Handling

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**Format:** Liquid

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**Buffer:** The buffer composition is at the discretion of the manufacturer. If you have a special request, please contact us.

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**Handling Advice:** Avoid repeated freeze-thaw cycles.

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**Storage:** -80 °C

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**Storage Comment:** Store at -80°C.

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**Expiry Date:** Unlimited (if stored properly)

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**Image 1.** „Crystallography Grade“ protein due to multi-step, protein-specific purification process