

Datasheet for ABIN3095865

## TECPR2 Protein (AA 1-1411) (Strep Tag)



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### Overview

|                               |   |
|-------------------------------|---|
| Quantity:                     | 250 µg  |
| Target:                       | TECPR2  |
| Protein Characteristics:      | AA 1-1411                                       |
| Origin:                       | Human   |
| Source:                       | Cell-free protein synthesis (CFPS)              |
| Protein Type:                 | Recombinant                                     |
| Purification tag / Conjugate: | This TECPR2 protein is labelled with Strep Tag. |
| Application:                  | ELISA, SDS-PAGE (SDS), Western Blotting (WB)    |

### Product Details

|           |  |
|-----------|--|
| Brand:    | AliCE®   |
| Sequence: | <p>MASISEPVTFRFCPLYLLNAIPTKIQKGFRSIVVYLTA LDTNGDYIAV GSSIGMLYLY</p> <p>CRHLNQMRKY NFEGKTESIT VVKLLSCFDD LVAAGTASGR VAVFQLVSSL PGRNKQLRRF</p> <p>DVTGIIHKNSI TALAWSPNGM KLFSGDDKGK IVYSSLDLDQ GLCNSQLVLE EPSSIVQLDY</p> <p>SQKVLLVSTL QRSLLFYTEE KSVRQIGTQP RKSTGKFGAC FIPGLCKQSD LTLYASRPGL</p> <p>RLWKADVHGT VQATFILKDA FAGGVKPFEL HPRLESPNSG SCSLPERHLG LVSCFFQEGW</p> <p>VLSWNEYSIY LLDTVNQATV AGLEGSGDIV SVSCTENEIF FLKGDRNIIR ISSRPEGLTS</p> <p>TVRDGLEMSG CSERVHVQQA EKLPGATVSE TRLRGSSMAS SVASEPRSRSSSLNSTDSGS</p> <p>GLLPPGLQAT PELGKGSQPL SQRFNAISS DFDQELVVKP IKVKRKKKKK KTEGGSRSTC</p> <p>HSSLESTPCS EFPDGPQSL NTDLLSMTSS VLGSSVDQLS AESPDQESSF NGEVNGVPQE</p> <p>NTDPETFNVLEVSGSMPDSL AEEDDIRTEM PHCHHAHGRE LLNGAREVDG GSDVTGLGDE</p> <p>PCPADDGPNSTQLPFQEQDS SPGAHDGEDI QPIGPQSTFC EVPLLSLTV PSSLSWAPSA</p> |

EQWLPGTRAD EGSPVEPSQE QDILTSMEAS GHLSTNLWHA VTDDDTGQKE IPISERVLGS  
VGGQLTPVSA LAASTHKPWL EQPPRDQTLT SSDEEDIYAH GLPSSSSETS VTELGPPSCSQ  
QDLSRLGAED AGLLKPDQFA ESWMGYSGPG YGILSLVVSE KYIWCLDYKG GLFCSALPGA  
GLRWQKFEDA VQQVAVSPSG ALLWKIEQKS NRAFACGKVT IKGKRHWYEA LPQAVFVALS  
DDTAWIIRTS GDLYLQTGLS VDRPCARAVK VDCPYPLSQI TARNNVVWAL TEQRALLYRE  
GVSSFCPEGE QWKCDIVSER QALEPVCITL GDQQLTWALD IHGNLWFRTG IISKKPQGDD  
DHWWQVSITD YVFDQCSLF QTIIHATHSV ATAAQAPVEK VADKLRMAFW SSQLQCQPSL  
LGVNNSGVWI SSGKNEFHVA KGSLIGTYWN HVVPRGTASA TKWAFVLASA APTKEGSFLW  
LCQSSKDLCS VSAQSAQSRP STVQLPPEAE MRAYAACQDA LWALDSLQGV FIRTLSKSCP  
TGMHWTRLDL SQLGAVKLTS LACGNQHIWA CDSRGGVYFR VGTQPLNPSL MLPAWIMIEP  
PVQPAGVSLV SVHSSPNDQM LWVLSRWNV HVRTGITEEM PVGTAWEHVP GLQACQLALS  
TRTVWARCPN GDLARRYGVT DKNPAGDYWK KIPGSVSCFT VTASDELWAV GPPGYLLQRL  
TKTFSHSHGT QKSSQAAMPH PEDLEDEWEV I

**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 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

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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:        | custom-made  |

## Target Details

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|                   |   |
|-------------------|---|
| Target:           | TECPR2  |
| Alternative Name: | TECPR2 ( <a href="#">TECPR2 Products</a> )  |
| Background:       | Tectonin beta-propeller repeat-containing protein 2 (WD repeat-containing protein KIAA0329/KIAA0297),FUNCTION: Probably plays a role as positive regulator of autophagy. {ECO:0000269 PubMed:23176824}. |
| Molecular Weight: | 153.8 kDa   |
| UniProt:          | <a href="#">O15040</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.   |
| 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.<br>Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol <b>Might differ depending on protein.</b> |
| Handling Advice: | Avoid repeated freeze-thaw cycles.   |
| Storage:         | -80 °C   |
| Storage Comment: | Store at -80°C.  |
| Expiry Date:     | 12 months  |