Datasheet for ABIN3094305

ORC3 Protein (AA 1-711) (Strep Tag)

Go to Product page

Overview

Quantity:	250 µg
Target:	ORC3
Protein Characteristics:	AA 1-711
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This ORC3 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Brand:	AliCE®
Sequence:	MATSSMSKGC FVFKPNSKKR KISLPIEDYF NKGKNEPEDS KLRFETYQLI WQQMKSENER LQEELNKNLF DNLIEFLQKS HSGFQKNSRD LGGQIKLREI PTAALVLGVN VTDHDLTFGS LTEALQNNVT PYVVSLQAKD CPDMKHFLQK LISQLMDCCV DIKSKEEESV HVTQRKTHYS MDSLSSWYMT VTQKTDPKML SKKRTTSSQW QSPPVVVILK DMESFATKVL QDFIIISSQH LHEFPLILIF GIATSPIIIH RLLPHAVSSL LCIELFQSLS CKEHLTTVLD KLLLTTQFPF KINEKVLQVL TNIFLYHDFS VQNFIKGLQL SLLEHFYSQP LSVLCCNLPE AKRRINFLSN NQCENIRRLP SFRRYVEKQA SEKQVALLTN ERYLKEETQL LLENLHVYHM NYFLVLRCLH KFTSSLPKYP LGRQIRELYC TCLEKNIWDS EEYASVLQLL RMLAKDELMT ILEKCFKVFK SYCENHLGST AKRIEEFLAQ FQSLDETKEE EDASGSQPKG LQKTDLYHLQ KSLLEMKELR RSKKQTKFEV LRENVVNFID CLVREYLLPP ETQPLHEVVY FSAAHALREH LNAAPRIALH TALNNPYYYL KNEALKSEEG CIPNIAPDIC IAYKLHLECS RLINLVDWSE AFATVVTAAE KMDANSATSE

	EMNEIIHARF IRAVSELELL GFIKPTKQKT DHVARLTWGG C **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! 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®).

Product Details

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

Target Details

Target:	ORC3
Alternative Name:	ORC3 (ORC3 Products)
Background:	Origin recognition complex subunit 3 (Origin recognition complex subunit Latheo),FUNCTION: Component of the origin recognition complex (ORC) that binds origins of replication. DNA-binding is ATP-dependent. The specific DNA sequences that define origins of replication have not been identified yet. ORC is required to assemble the pre-replication complex necessary to initiate DNA replication. Binds histone H3 and H4 trimethylation marks H3K9me3, H3K27me3 and H4K20me3. {ECO:0000269|PubMed:22427655, ECO:0000269|PubMed:31160578}.
Molecular Weight:	82.3 kDa
UniProt:	Q9UBD5
Pathways:	Mitotic G1-G1/S Phases, DNA Replication, Feeding Behaviour, Synthesis of DNA

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 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