

Datasheet for ABIN3135929

Transmembrane 7 Superfamily Member 4 (TM7SF4) (AA 1-470) protein (Strep Tag)



[Go to Product page](#)

Overview

Quantity:	250 µg
Target:	Transmembrane 7 Superfamily Member 4 (TM7SF4)
Protein Characteristics:	AA 1-470
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	Strep Tag
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Brand:	AliCE®
Sequence:	<p>MRLWTLGTSI FLRLWGTYVF PRSPSWLDFI QHLGVCCFVA FLSVSLFSAA FYWILPPVAL</p> <p>LSSVWMITCV FLCCSKRARC FILLAVLSCG LREGRNALIA AGTGVVIFGH VENIFYNFRG</p> <p>LLDSMTCNLR AKSFSVHFPL LKRYTEAIQW IYGLATPLNL FDDLVSWNQT LVVSLFSPSH</p> <p>ALEAHMNDTR GEVLGVLHHM VTTTELLTSV GQKLLALAGL LLILVSTGLF LKRFLGPCGW</p> <p>KYENVYITKQ FVRFDEKERH QQRPCVLPLN KKERKKYVIV PSLQLTPKEK KTLGLFFLPV</p> <p>LTYLYMWVLF AAVDYLLYRL ISSMNKQFQS LPGLEVHLKL RGEKQGTQGV VHDSAFNISM</p> <p>FEPSCIPKPR LSVSETWVPL SIILLTLIL GLLSSMLMQL KILVSVSFYP KVERERIEYL HAKLLEKRSK</p> <p>QPLREADGKP SLYFKKIHFW FVLKMKIRKK QTIPANEDDL</p>

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.

Product Details

Characteristics:	<div>Key Benefits:</div> <ul style="list-style-type: none">• 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). <p>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.</p> <p>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.</p> <div>Expression System:</div> <ul style="list-style-type: none">• 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.• 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! <div>Concentration:</div> <ul style="list-style-type: none">• 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:	Transmembrane 7 Superfamily Member 4 (TM7SF4)
Alternative Name:	Dcstamp (TM7SF4 Products)
Background:	<p>Dendritic cell-specific transmembrane protein (DC-STAMP) (mDC-STAMP) (Dendrocyte-expressed seven transmembrane protein) (Transmembrane 7 superfamily member 4),FUNCTION: Probable cell surface receptor that plays several roles in cellular fusion, cell differentiation, bone and immune homeostasis. Plays a role in TNFSF11-mediated osteoclastogenesis. Cooperates with OCSTAMP in modulating cell-cell fusion in both osteoclasts and foreign body giant cells (FBGCs). Participates in osteoclast bone resorption. Involved in inducing the expression of tartrate-resistant acid phosphatase in osteoclast precursors. Plays a role in haematopoietic stem cell differentiation of bone marrow cells toward the myeloid lineage. Inhibits the development of neutrophilic granulocytes. Plays also a role in the regulation of dendritic cell (DC) antigen presentation activity by controlling phagocytic activity. Involved in the maintenance of immune self-tolerance and avoidance of autoimmune reactions. {ECO:0000269 PubMed:15452179, ECO:0000269 PubMed:16061724, ECO:0000269 PubMed:16937266, ECO:0000269 PubMed:17164993, ECO:0000269 PubMed:17713547, ECO:0000269 PubMed:18653699, ECO:0000269 PubMed:18952287, ECO:0000269 PubMed:20039274, ECO:0000269 PubMed:22337159}.</p>
Molecular Weight:	53.9 kDa
UniProt:	Q7TNJ0

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:	<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</p>

Application Details

	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