

## Datasheet for ABIN3086641 PSMB2 Protein (AA 1-201) (Strep Tag)



Overview Quantity: 1 mg PSMB2 Target: Protein Characteristics: AA 1-201 Origin: Human Source: Tobacco (Nicotiana tabacum) Protein Type: Recombinant Purification tag / Conjugate: This PSMB2 protein is labelled with Strep Tag. Application: SDS-PAGE (SDS), ELISA, Western Blotting (WB) Product Details Sequence: MEYLIGIQGP DYVLVASDRV AASNIVQMKD DHDKMFKMSE KILLLCVGEA GDTVQFAEYI QKNVQLYKMR NGYELSPTAA ANFTRRNLAD CLRSRTPYHV NLLLAGYDEH EGPALYYMDY LAALAKAPFA AHGYGAFLTL SILDRYYTPT ISRERAVELL RKCLEELQKR FILNLPTFSV RIIDKNGIHD LDNISFPKOG S 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

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).

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have a special request, please contact us.

• 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®).
Purity:	> 80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).

### **Target Details**

Target:	PSMB2
Alternative Name:	PSMB2 (PSMB2 Products)
Background:	Proteasome subunit beta type-2 (Macropain subunit C7-I) (Multicatalytic endopeptidase complex subunit C7-I) (Proteasome component C7-I),FUNCTION: Non-catalytic component of
	the 20S core proteasome complex involved in the proteolytic degradation of most intracellular

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different regulatory particles. Associated with two 19S regulatory particles, forms proteasome and thus participates in the ATP-dependent degradation of ubiquiting The 26S proteasome plays a key role in the maintenance of protein homeostasis misfolded or damaged proteins that could impair cellular functions, and by remov whose functions are no longer required. Associated with the PA200 or PA28, the 2 proteasome mediates ubiquitin-independent protein degradation. This type of pro required in several pathways including spermatogenesis (20S-PA20 complex), (ECO:0000269)PubMed:15244466, ECO:0000269)PubMed:27176742, ECO:0000269)PubMed:8610016).Molecular Weight:22.8 kDaUniProt:P49721Pathways:Mitotic G1-G1/S Phases, DNA Replication, Synthesis of DNAApplication DetailsIn addition to the applications listed above we expect the protein to work for funct as well. As the protein has not been tested for functional studies yet we cannot of guarantee though.Comment:ALICE®, our Almost Living Cell-Free Expression System is based on a lysate obtail Nicotiana tabacum cx This contains all the protein expression machinery medde even the most difficult-to-express proteins, including those that require post-trans modifications.During lysate production, the cell wall and other cellular components that are not protein production actions cofactors, etc.) are addite something that functions like a cell, but without the constraints of a living system needed is the DNA that codes for the desired protein!Restrictions:For Research Use only	ing with
The 26S proteasome plays a key role in the maintenance of protein homeostasis         misfolded or damaged proteins that could impair cellular functions, and by removies functions are no longer required. Associated with the PA200 or PA28, the 27 proteasome mediates ubiquitin-independent protein degradation. This type of protein generating pathways including spermatogenesis (20S-PA28 complex) or a subset of MHC class I-presented antigenic peptides (20S-PA28 complex). (ECO:0000269)PubMed:15244466, ECO:0000269)PubMed:27176742, ECO:0000269)PubMed:8610016).         Molecular Weight:       22.8 kDa         UniProt:       P49721         Pathways:       Mitotic G1-G1/S Phases, DNA Replication, Synthesis of DNA         Application Details       In addition to the applications listed above we expect the protein to work for functions as well. As the protein has not been tested for functional studies yet we cannot of guarantee though.         Comment:       ALICE®, our Almost Living Cell-Free Expression System is based on a lysate obtail Nicotiana tabacum c.v This contains all the protein expression machinery neede even the most difficult-to-express proteins, including those that require post-trans modifications.         During lysate production, the cell wall and other cellular components that are not protein production are removed, leaving only the protein production machinery and mitochondria to drive the reaction. During our lysate completion steps, the additic components needed for protein production (amino acids, cofactors, etc.) are addi something that functions like a cell, but without the constraints of a living system indecho for the desired protein	the 26S
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# Handling

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)