

Datasheet for ABIN3086338 PRIM2 Protein (AA 1-509) (Strep Tag)



Overview

| Quantity: | 250 µg |
|-------------------------------|--|
| Target: | PRIM2 |
| Protein Characteristics: | AA 1-509 |
| Origin: | Human |
| Source: | Cell-free protein synthesis (CFPS) |
| Protein Type: | Recombinant |
| Purification tag / Conjugate: | This PRIM2 protein is labelled with Strep Tag. |
| Application: | ELISA, Western Blotting (WB), SDS-PAGE (SDS) |

Product Details

| | Sequence without tag. The proposed Strep-Tag is based on experience s with the expression |
|-----------|---|
| | NSSLEMDMEG LEDYFSEDS |
| | IHNVDDCGFS LNHPNQFFCE SQRILNGGKD IKKEPIQPET PQPKPSVQKT KDASSALASL |
| | ILSNPPSQGD YHGCPFRHSD PELLKQKLQS YKISPGGISQ ILDLVKGTHY QVACQKYFEM |
| | LFLKGIGLTL EQALQFWKQE FIKGKMDPDK FDKGYSYNIR HSFGKEGKRT DYTPFSCLKI |
| | NHLSHSYTGQ DYSTQGNVGK ISLDQIDLLS TKSFPPCMRQ LHKALRENHH LRHGGRMQYG |
| | ALDLFRGRKV YLEDGFAYVP LKDIVAIILN EFRAKLSKAL ALTARSLPAV QSDERLQPLL |
| | IQQEMDLLRF RFSILPKDKI QDFLKDSQLQ FEAISDEEKT LREQEIVASS PSLSGLKLGF ESIYKIPFAI |
| | VSYVKGTEQY QSKLESELRK LKFSYRENLE DEYEPRRRDH ISHFILRLAY CQSEELRRWF |
| Sequence: | MEFSGRKWRK LRLAGDQRNA SYPHCLQFYL QPPSENISLI EFENLAIDRV KLLKSVENLG |
| Brand: | AliCE® |

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

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| Target Details | |
|---------------------|---|
| Target: | PRIM2 |
| Alternative Name: | PRIM2 (PRIM2 Products) |
| Background: | DNA primase large subunit (DNA primase 58 kDa subunit) (p58),FUNCTION: Regulatory subunit of the DNA primase complex and component of the DNA polymerase alpha complex (also |
| | known as the alpha DNA polymerase-primase complex) which play an essential role in the |
| | initiation of DNA synthesis (PubMed:9705292, PubMed:17893144, PubMed:25550159, |
| | PubMed:26975377). During the S phase of the cell cycle, the DNA polymerase alpha complex |
| | (composed of a catalytic subunit POLA1, an accessory subunit POLA2 and two primase |
| | subunits, the catalytic subunit PRIM1 and the regulatory subunit PRIM2) is recruited to DNA at |
| | the replicative forks via direct interactions with MCM10 and WDHD1 (By similarity). The |
| | |
| | primase subunit of the polymerase alpha complex initiates DNA synthesis by oligomerising |
| | short RNA primers on both leading and lagging strands (PubMed:17893144). These primers are |
| | initially extended by the polymerase alpha catalytic subunit and subsequently transferred to |
| | polymerase delta and polymerase epsilon for processive synthesis on the lagging and leading |
| | strand, respectively (By similarity). In the primase complex, both subunits are necessary for the |
| | initial di-nucleotide formation, but the extension of the primer depends only on the catalytic |
| | subunit (PubMed:17893144, PubMed:25550159). Binds RNA:DNA duplex and coordinates the |
| | catalytic activities of PRIM1 and POLA2 during primase-to-polymerase switch. |
| | {ECO:0000250 UniProtKB:P09884, ECO:0000250 UniProtKB:P33610, |
| | EC0:0000269 PubMed:17893144, EC0:0000269 PubMed:25550159, |
| | ECO:0000269 PubMed:26975377, ECO:0000269 PubMed:9705292}. |
| Molecular Weight: | 58.8 kDa |
| UniProt: | P49643 |
| Pathways: | Telomere Maintenance, Mitotic G1-G1/S Phases, DNA Replication, Synthesis of DNA, SARS- |
| | CoV-2 Protein Interactome |
| Application Details | |
| Application Notes: | In addition to the applications listed above we expect the protein to work for functional studies |
| Application Notes. | 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 |
| | |

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| | 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 |
| | |
| Llondling | |
| Handling | |
| Format: | Liquid |
| | Liquid The buffer composition is at the discretion of the manufacturer. |
| Format: | |
| Format: | The buffer composition is at the discretion of the manufacturer. |
| Format: 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. |
| Format: Buffer: Handling Advice: | The buffer composition is at the discretion of the manufacturer. Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol Might differ depending on protein. Avoid repeated freeze-thaw cycles. |

Expiry Date:

12 months