

# Recombinant Full Length Thermoanaerobacter Tengcongensis Potassium-Transporting Atpase B Chain(Kdpb) Protein, His-Tagged

**Cat. No.** RFL23993CF    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
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| <b>Product Overview</b> | Recombinant Full Length Thermoanaerobacter tengcongensis Potassium-transporting ATPase B chain(kdpB) Protein (Q8R8I6) (1-681aa), fused to N-terminal His tag, was expressed in E. coli.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Species</b>          | Caldanaerobacter subterraneus subsp. tengcongensis                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>ProteinLength</b>    | Full Length (1-681)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Form</b>             | Lyophilized powder                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>AA Sequence</b>      | <p>                     MKRKREIKTWSREIVVGAIKNSFIKLNPLYMYKNPVMFVVEVGTFITLLATIFPTYFGS<br/>                     T PDEVGYNALVTFILFVTVLFANFAESLAEGRGKAQAETLRKTKKETMAKLVQSDGS<br/>                     IKIV KSSELKKGDIVICEAGDIIPADGEIIEGLAAIDESAITGESAPVIKEAGGDFSSVTG<br/>                     GTK VISDRIKIRVTVDEGESFLDRMIKLVGAKRQKSPNEIALTTVLVSLTIIFIVVMTL<br/>                     YP MAKFVHVRISAATMIALLVCLIPTTIGGLLSAIGIAGMDRVTRFNVIAMSGKAVEAA<br/>                     GDI DTILLDKTGTITFGNRLAADFIPVGGHSKEEVTTYALISSLKDLTPEGRSIVDLARK<br/>                     MGA KAPDDILEGAEVVEFSAETRMSSGLNLKDGTVIRKGSYDKVKEYIGEKGGSSIPDD<br/>                     LDKEVE KISLLGGTPLVVVKDNEVLGVIYLKDTIKPGMKERFKQLRAMGIKTIMITGDN<br/>                     PLTAKTI AEEAGVDEFIAESKPEDKINVIKREQAQQRLVAMTGDGTNDAPALAQADV<br/>                     GLAMNSGTMA AKEAANMVDLSDPTKIIIEVVGIGKQLLMTRGALTTFESIANDVAKYF                 </p> |

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

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|                         | AILPAISETLPA IKVLDVMKLSSPTNAILSALIYNAIIPILIPIAMRGVKYRPMSANALLM<br>RNLLIYGLGG LIAPFVGIKLIDMIISSIFGM                                                                                                                                                                                                                                                                                                          |
| <b>Purity</b>           | Greater than 90% as determined by SDS-PAGE.                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Notes</b>            | Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.                                                                                                                                                                                                                                                                                                         |
| <b>Storage</b>          | Store at -20°C/-80°C upon receipt, aliquoting is necessary for mutiple use. Avoid repeated freeze-thaw cycles.                                                                                                                                                                                                                                                                                              |
| <b>Storage Buffer</b>   | Tris/PBS-based buffer, 6% Trehalose, pH 8.0                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Reconstitution</b>   | We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference. |
| <b>GENE INFORMATION</b> |                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Gene Name</b>        | kdpB                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Synonyms</b>         | kdpB; TTE2011; Potassium-transporting ATPase ATP-binding subunit; ATP phosphohydrolase [potassium-transporting] B chain; Potassium-binding and translocating subunit B; Potassium-translocating ATPase B chain                                                                                                                                                                                              |
| <b>UniProt ID</b>       | <a href="#">Q8R8I6</a>                                                                                                                                                                                                                                                                                                                                                                                      |