



# Recombinant *Geobacillus stearothermophilus* Cellobiose-specific phosphotransferase enzyme IIA component (celD)

|                          |                                                                                                                                                                                                                                                                                                                                                                                                             |
|--------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Code</b>      | CSB-EP676039GFM-B                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Abbreviation</b>      | celD                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Storage</b>           | The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself.<br>Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.                                                                                                                          |
| <b>Uniprot No.</b>       | Q45402                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Product Type</b>      | Recombinant Protein                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Immunogen Species</b> | <i>Geobacillus stearothermophilus</i> ( <i>Bacillus stearothermophilus</i> )                                                                                                                                                                                                                                                                                                                                |
| <b>Purity</b>            | >85% (SDS-PAGE)                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Sequence</b>          | MQTYEQTVFQ LILHGGNGRS YAMEAITAAK KGEFAEARRL LEQAGAELQA<br>AHGLQTALLQ QEASGGQPVV TLLMVHAQDH LMTAITVKDL AAEFVELYEA<br>LKRQTTEs                                                                                                                                                                                                                                                                                |
| <b>Source</b>            | <i>E. coli</i>                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Target Names</b>      | celD                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Protein Names</b>     | Recommended name: Cellobiose-specific phosphotransferase enzyme IIA component EC= 2.7.1.- Alternative name(s): EIIA-Cel EIII-Cel PTS system cellobiose-specific EIIA component                                                                                                                                                                                                                              |
| <b>Expression Region</b> | 1-108                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Notes</b>             | Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.                                                                                                                                                                                                                                                                                                         |
| <b>Tag Info</b>          | Tag type will be determined during the manufacturing process.                                                                                                                                                                                                                                                                                                                                               |
| <b>Protein Length</b>    | full length protein                                                                                                                                                                                                                                                                                                                                                                                         |
| <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>Shelf Life</b>        | The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself.<br>Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.                                                                                                                          |