



# Recombinant Prochlorococcus marinus subsp. pastoris ATP synthase subunit beta (atpD)

|                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Code</b>      | CSB-BP763350EYQ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Abbreviation</b>      | atpD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <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>       | Q7V049                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Product Type</b>      | Recombinant Protein                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Immunogen Species</b> | Prochlorococcus marinus subsp. pastoris (strain CCMP1986 / NIES-2087 / MED4)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Purity</b>            | ≥85% (SDS-PAGE)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Sequence</b>          | MVATPSTSAP AKGVVRQVIG PVLDFVEFPAG KLPKILNALR IEAKNPAGQD<br>IALTAEVQQL LGDHRVRAVA MSGTDGLVRG MEATDTGAPI SVPVGEATLG<br>RIFNVLGEPV DEQGPVNTSD IAPIHRSAPK LTDLETGPKV FETGIKVIDL<br>LAPYRQGGKV GLFGGAGVGK TVLIQELINN IAKEHGGVSV FGGVGERTRE<br>GNDLYEEFKE SGVINADDLS QSKVALCFGQ MNEPPGARMR VGLSALTMAE<br>HFRDVNKQDV LLFVDNIFRF VQAGSEVSAL LGRMPSAVG Y QPTLGTDVGA<br>LQERITSTLE GSITSIQAVY VPADDLTDP A PATTFAHLDA TTVLARGLAA<br>KGIYPAVDPL DSTSTMLQPS VVGDEHYKTA RAVQSTLQRY KELQDIIAIL<br>GLDELSEEDR LTVSRARKIE KFLSQPFFVA EIFTGMSGKY VKLEDTIAGF<br>NMILAGELDD LPEQAFYLVG NIDEVKAKAE KIKEEK |
| <b>Source</b>            | Baculovirus                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Target Names</b>      | atpD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Protein Names</b>     | Recommended name: ATP synthase subunit beta EC= 3.6.3.14 Alternative name(s): ATP synthase F1 sector subunit beta F-ATPase subunit beta                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Expression Region</b> | 1-486                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <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.                                                                                                                                                                                                                                                                                                                                                                                                                                           |



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.