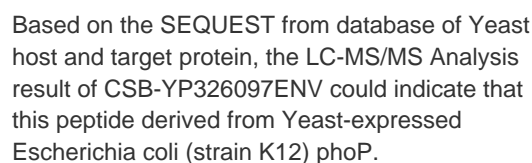
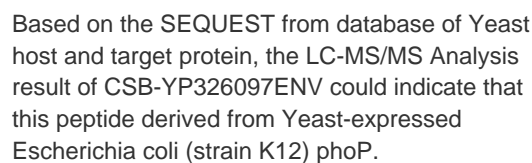




# Recombinant Escherichia coli Transcriptional regulatory protein PhoP (phoP)

<b>Product Code</b>	CSB-YP326097ENV
<b>Relevance</b>	Member of the two-component regulatory system PhoP/PhoQ involved in adaptation to low Mg <sup>2+</sup> environments and the control of acid resistance genes. In low periplasmic Mg <sup>2+</sup> , PhoQ phosphorylates PhoP, resulting in the expression of PhoP-activated genes (PAG) and repression of PhoP-repressed genes (PRG). In high periplasmic Mg <sup>2+</sup> , PhoQ dephosphorylates phospho-PhoP, resulting in the repression of PAG and may lead to expression of some PRG. Mediates magnesium influx to the cytosol by activation of MgtA. Promotes expression of the two-component regulatory system rstA/rstB and transcription of the hemL, mgrB, nagA, slyB, vboR and yrbL genes.
<b>Storage</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.
<b>Uniprot No.</b>	P23836
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Escherichia coli (strain K12)
<b>Purity</b>	Greater than 90% as determined by SDS-PAGE.
<b>Sequence</b>	MRVLVVEDNALLRHHLKVQIQDAGHQVDDAEDAKEYDYLLNEHIPDIAIVDLGL PDEDGLSLIRRWRSNDVSLPILVLTARES WQDKVEVLSAGADDYVTKPFHIEEV MARMQALMRRNSGLASQVISLPPFQVDLSRRELSINDEVIKLTAFEYTIMETLIR NNGKVVS KDSLMLQLYPDAELRESHTIDVLMGRLRKKIQAQYPQEVITTVRGQ GYLFELR
<b>Lead Time</b>	3-7 business days
<b>Research Area</b>	others
<b>Source</b>	Yeast
<b>Gene Names</b>	phoP
<b>Protein Names</b>	Recommended name: Transcriptional regulatory protein phoP
<b>Expression Region</b>	1-223aa
<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>	N-terminal 6xHis-tagged and C-terminal Myc-tagged
<b>Mol. Weight</b>	29.0kDa
<b>Protein Description</b>	Full Length
<b>Image</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.