

Resource Summary Report

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NEBExpress MBP Fusion and Purification System (NEB #E8201)

DOI:10.17504/protocols.io.bfayjfw

Type: Protocol

Proper Citation

New England Biolabs 2020. NEBExpress MBP Fusion and Purification System (NEB #E8201). protocols.io dx.doi.org/10.17504/protocols.io.bfayjfw

Protocol Information

URL: <https://dx.doi.org/10.17504/protocols.io.bfayjfw>

Authors: New England Biolabs

Group: New England Biolabs (NEB)

Summary: The NEBExpress MBP Fusion and Purification System takes advantage of the strong Ptac promoter and the translation initiation signals of maltose binding protein (MBP) to enhance solubility and expression levels of a desired protein in *E. coli*. The resulting product is an MBP fusion protein, which is then purified by affinity chromatography. Reliable *E. coli* expression: substantial yields (up to 100 mg/L) Fusion to MBP has been shown to enhance the solubility of proteins expressed in *E. coli* (1) Two-step purification: amylose elution followed by TEV Protease cleavage and Ni resin isolation results in a highly pure tag-free target protein Gentle elution with maltose; no detergents or harsh denaturants required

Affiliations: New England Biolabs

External URL: <https://www.neb.com/protocols/2020/02/05/nebexpress-mbp-fusion-and-purification-system-quick-start-protocol-neb-e8201>

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