

Resource Summary Report

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Expression and purification of (GST-tagged) (Kai) proteins

DOI:10.17504/protocols.io.k68czhw

Type: Protocol

Proper Citation

Anika Wiegard 2018. Expression and purification of (GST-tagged) (Kai) proteins. protocols.io dx.doi.org/10.17504/protocols.io.k68czhw

Protocol Information

URL: <https://dx.doi.org/10.17504/protocols.io.k68czhw>

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Summary: This protocol can be used for:(i) heterologous expression of GST-tagged proteins from pGEX-6P1 based expression vectors in E. coli.(ii) purification of recombinant proteins via affinity chromatography using glutathione-agarose or glutathione-sepharose (GST tagged protein can be eluted with glutathione. Alternatively, the tag can be cleaved off by prescission protease)(iii) further purification of the eluted protein via anion exchange chromatographyThis protocol was modified fromWiegard A, Dörrich AK, Deinzer HT, Beck C, Wilde A, Holtzendorff J, Axmann IM: Biochemical analysis of three putative KaiC clock proteins from Synechocystis sp. PCC 6803 suggests their functional divergence. Microbiology 2013, 159, 948-958Snijder J, Schuller JM, Wiegard A, Lössel, P, Schmelling NM, Axmann IM, Plitzko JM, Förster F, Heck AJR: Structures of the cyanobacterial circadian oscillator frozen in a fully assembled state. Science 2017, 355(6330):1181-1184

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