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**Heterologous *gshF* gene expression in various vector systems in
Escherichia coli for enhanced glutathione production**

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Abstract

Glutathione (GSH), an important bioactive product, is widely used in production of pharmaceuticals and foods. In this study, four different vector systems, pET28a, pUC18, pUC19-P32, and pUC19-Pabb, were applied for expression of *gshF*, encoding the bifunctional glutathione synthetase of *Streptococcus thermophiles*. These four constructs were named as pET28a-*gshF*, pUC18-*gshF*, pUC19-P32-*gshF*

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