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(54) Title: STRAINS AND METHODS FOR PRODUCTION OF HEME-CONTAINING PROTEINS

(57) Abstract: This document relates to materials and methods for the production of protein. In one aspect, this document provides a cell including a first exogenous nucleic acid construct comprising a nucleotide sequence encoding an aminolevulinate synthase (ALAS) protein operably linked to a first promoter element, wherein the ALAS includes a mutation in a first heme responsive motif (HRM) and a mutation in a second HRM, and a second exogenous nucleic acid construct including a nucleotide sequence encoding a heme-binding protein, wherein the second exogenous nucleic acid construct including a nucleotide sequence encoding the heme-binding protein is operably linked to the first promoter element or is operably linked to a second promoter element.