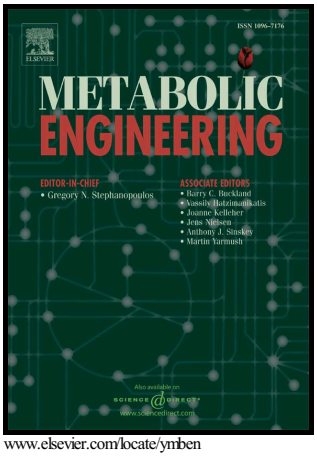


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# A CRISPR/Cas9 based engineering strategy for overexpression of multiple genes in Chinese hamster ovary cells

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## Abstract

Manipulation of multiple genes to engineer Chinese Hamster Ovary (CHO) cells for better performance in production processes of biopharmaceuticals has recently become more and more popular. Yet, identification of useful genes and the unequivocally assessment of their effect alone and in combination(s) on the cellular phenotype is difficult due to high variation between subclones. Here, we present development and proof-of-concept of a novel engineering strategy using multiplexable activation of