

Title (en)
IN VITRO PROTEIN SYNTHESIS SYSTEMS FOR MEMBRANE PROTEINS THAT INCLUDE APOLIPOPROTEINS AND PHOSPHOLIPID-
APOLIPOPROTEIN PARTICLES

Title (de)
IN-VITRO-PROTEINSYNTHESESYSTEME FÜR MEMBRANPROTEINE MIT APOLIPOPROTEINEN UND PHOSPHOLIPID-
APOLIPOPROTEINPARTIKELN

Title (fr)
SYSTEMES DE SYNTHÈSE DE PROTÉINES IN VITRO DESTINÉS À DES PROTÉINES MEMBRANAIRES COMPRENANT DES
APOLIPOPROTÉINES ET DES PARTICULES DE PHOSPHOLIPIDE-APOLIPOPROTÉINES

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Abstract (en)
[origin: WO2007038755A1] In vitro protein synthesis systems and methods are provided that produce membrane proteins in soluble form. In some aspects, the invention provides methods of synthesizing proteins using in vitro protein synthesis systems that include an apolipoprotein, in which higher yields of soluble protein are produced than in the absence of the apolipoprotein. Apolipoproteins useful in the present invention include naturally occurring apolipoproteins, as well as sequence variants of wild-type apolipoproteins, and engineered apolipoproteins. The apolipoproteins can be provided in an in vitro protein synthesis system associated with lipid or not associated with lipid. The invention also provides compositions and kits for synthesis of proteins in soluble form, in which the compositions and kits include cell extracts for protein translation and at least one apolipoprotein biomolecule.

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