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(54) Title: CELL FREE TRANSLATION SYSTEM FOR COMPOUND SCREENING AND RELATED USES

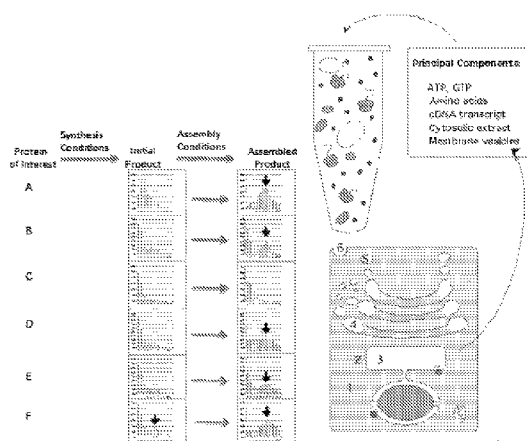


Figure 14

(57) Abstract: The invention provides a cell-free sys-
tem comprising not more than about 5% wheat germ ex-
tract for expressing proteins such as viral proteins and
proteins required for viral capsid assembly, and proteins
that assemble into multiprotein complexes in a manner
analogous to viral capsids, are provided. Further
provided are methods for expressing proteins such as
viral proteins, proteins required for capsid assembly,
and proteins that assemble into multiprotein complexes
in a manner analogous to viral capsids using a cell-free
system comprising not more than about 5% wheat germ
extract. Further provided are methods to assay for com-
pounds that modulate viral protein, viral capsid as-
sembly, and assembly of proteins into multiprotein com-
plexes whose disruption can ameliorate bacterial, para-
sitic, metabolic, oncologic, immunologic, or CNS dis-
ease in a cell-free system comprising not more than
about 5% wheat germ extract.