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(54) Title: GLYCOSYLATED PROTEIN EXPRESSION IN PROKARYOTES

(57) Abstract: The invention relates to a prokaryotic host cell comprising eukaryotic glycosyttransferase activity, wherein the eukaryotic glycosyltransferase activity is eukaryotic dolichyl-linked UDP-GIcNAc transferase activity and eukaryotic mannosyltransferase activity. Also disclosed is a method of producing a glycosylated protein by providing a prokaryotic host cell comprising the eukaryotic glycosyltransferase activity and culturing the prokaryotic host cell under conditions effective to produce a glycosylated protein. Another aspect of the disclosure pertains to a method for screening bacteria or bacteriophages by expressing one or more glycans on the surface of a bacteria, attaching a label on the one or more glycans on the surface of the bacteria or a bacteriophage derived from the bacteria, and analyzing the label in a high-throughput format. A glycosylated antibody comprising an Fv portion which recognizes and binds to a native antigen and an Fc portion which is glycosylated at a conserved asparagine residue is also disclosed.