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(54) Title: NOVEL FUCOSYLTRANSFERASES AND THEIR APPLICATIONS

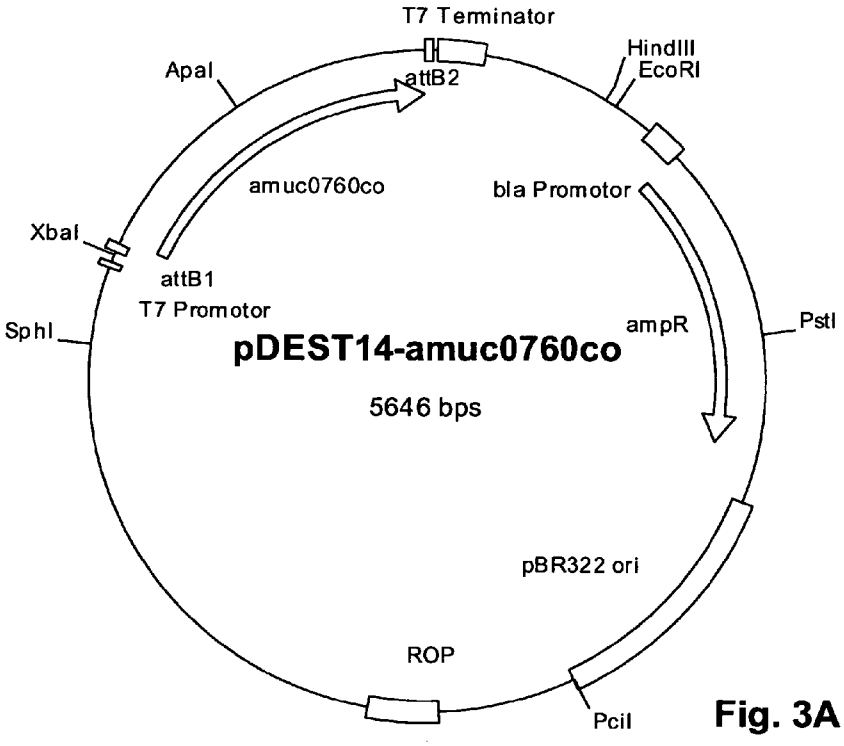


Fig. 3A

(57) Abstract: The present invention relates to nucleic acid and amino acid sequences from *Akkermansia muciniphila* and from *Bacteroides fragilis*, coding for/representing novel alpha-1,3-fucosyltransferases. The invention also provides uses and methods for using the alpha-1,3-fucosyltransferases to generate fucosylated products, such as oligosaccharides, (glyco)proteins, or (glyco)lipids, in particular of 3-fucosyllactose.

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