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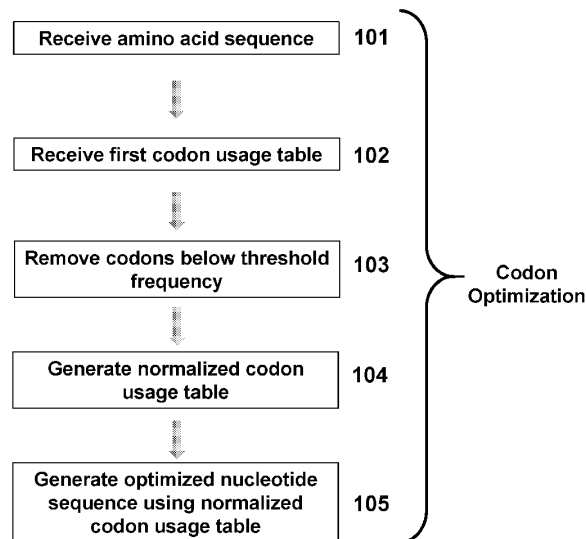
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(54) Title: GENERATION OF OPTIMIZED NUCLEOTIDE SEQUENCES

Figure 1



(57) Abstract: A method for generated an optimized nucleotide sequence is provided. The method comprises at least normalizing a codon usage table and selection of codons for a given amino acid sequence based on the usage frequency of the codons in the normalized codon usage table. The method may comprise generating a list of a plurality of optimized nucleotide sequences encoding the amino acid sequence, filtering the list of optimized nucleotide sequences, synthesizing one or more optimized nucleotide sequence, and/or administering one or more synthesized optimized nucleotide sequence.

[Continued on next page]

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