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(54) Title: ARTIFICIAL NUCLEIC ACID MOLECULES

(57) Abstract: The invention relates to an artificial nucleic acid molecule comprising at least one open reading frame and at least one 3'-untranslated region element (3'-UTR element) and/or at least one 5'-untranslated region element (5'-UTR element), wherein the at least one 3'-UTR element and/or the at least one 5'-UTR element prolongs and/or increases protein production from said artificial nucleic acid molecule and wherein the at least one 3'-UTR element and/or the at least one 5'-UTR element is derived from a stable mRNA. The invention further relates to the use of such an artificial nucleic acid molecule in gene therapy and/or genetic vaccination. Furthermore, methods for identifying a 3'-UTR element and/or a 5'-UTR derived from a stable mRNA element are disclosed.