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(54) Title: FULLY IMPAIRED CONSENSUS KOZAC SEQUENCES FOR MAMMALIAN EXPRESSION

Neomycin phosphotransferase gene

		Cla I	−3		+1
TCAE 5.2	TTGGGAGCTTGG	ATCGAT	CC	A cc ATG	G tt
				Met	Val
ANEX 1	TTGGGAGCTTGG	ATCGAT	CC	I cc ATG	C tt
				Met	Leu
ANEX 2	CCaGCATGgAGGA	ATCGAT	CC	I cc ATG	C tt
				Met	Leu

This Sheet Has Been Replaced



−3	+1	(I)
Pyxx	ATG	Pyxx

(57) Abstract

Disclosed herein are fully impaired consensus Kozak sequences which are most typically used with dominant selectable markers of transcriptional cassettes which are a part of an expression vector. These vectors are most typically utilized in the expression of proteins in mammalian expression systems. As defined, disclosed and claimed herein, a "fully impaired consensus Kozak" comprises sequence (I), where: "x" is a nucleotide selected from the group consisting of adenine (A), guanine (G), cytosine (C) or thymine (T)/uracil (U); "Py" is a pyrimidine nucleotide, *ie* C or TU; "ATG" is a codon encoding for the amino acid methionine, the so-called "start" codon; and -3 and +1 are directional reference points vis-á-vis ATG. *ie* -3 is meant to indicate three nucleotides upstream of ATG and +1 is meant to indicate one nucleotide downstream of ATG. Dominant selectable markers further comprising artificial intronic insertion regions are further disclosed.

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