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(54) **Title**: METHOD OF NUCLEAR REPROGRAMMING

(57) **Abstract**: This invention provides a method of producing an induced pluripotent stem cell comprising the step of introducing at least one kind of non-viral expression vector (more preferably a plasmid vector) incorporating at least one gene that encodes a reprogramming factor into a somatic cell. An induced pluripotent stem cell wherein no exogenous genes induced is integrated into the cellular genome is also provided.