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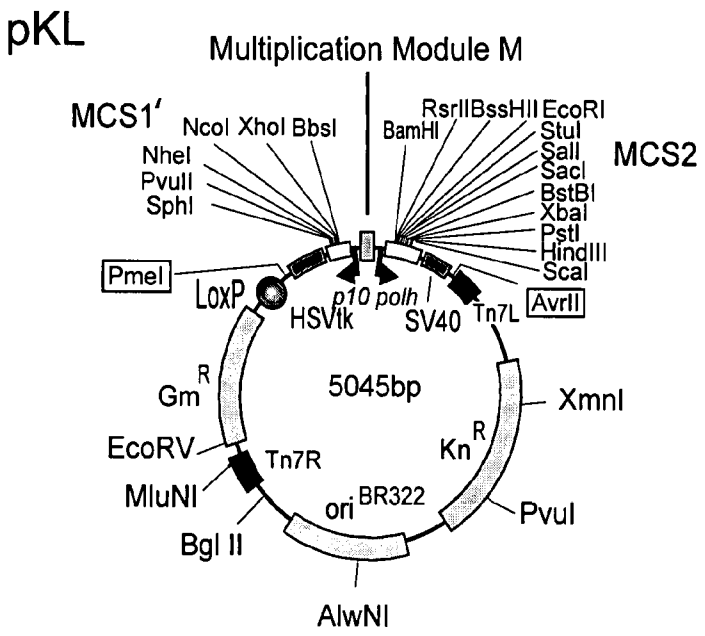
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(54) **Title:** RECOMBINANT EXPRESSION OF MULTIPROTEIN COMPLEXES USING POLYGENES




(57) **Abstract:** The present invention relates to a recombinant polynucleotide encoding a polygene coding for at least three polypeptides wherein at least one of the genes constituting the polygene is of non-viral origin, at least two of the polypeptides encoded by the genes constituting the polygene are each capable of at least transiently interacting with at least one other polypeptide encoded by a gene of said polygene, and the genes constituting the polygene are each connected to one another by a sequence coding for at least one protease cleavage site. The present invention also relates to polyproteins encoded by the polygene. Further embodiments of the present invention are a vector containing the recombinant polypeptide, a host cell containing the recombinant polypeptide and/or the vector and a non-human transgenic animal transformed with the recombinant polypeptide and/or the vector. The present invention also relates to methods for the production of the polynucleotide and for the manufacture of multiprotein complexes. The embodiments of the present invention are particularly useful in gene therapy, drug candidate screening, vaccine production and crystallisation of multiprotein complexes for structural investigations.

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