

[54] MULTICHAIN POLYPEPTIDES OR PROTEINS AND PROCESSES FOR THEIR PRODUCTION

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[58] Field of Search 435/68, 172.3, 243, 435/320, 253, 255

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[57] ABSTRACT

Multichain polypeptides or proteins and processes for their production in cells of host organisms which have been transformed by recombinant DNA techniques. According to a first aspect of the present invention, there is provided a process for producing a heterologous multichain polypeptide or protein in a single host cell, which comprises transforming the host cell with DNA sequences coding for each of the polypeptide chains and expressing said polypeptide chains in said transformed host cell. According to another aspect of the present invention there is provided as a product of recombinant DNA technology an Ig heavy or light chain or fragment thereof having an intact variable domain. The invention also provides a process for increasing the level of protein expression in a transformed host cell and vectors and transformed host cells for use in the processes.

18 Claims, 13 Drawing Sheets

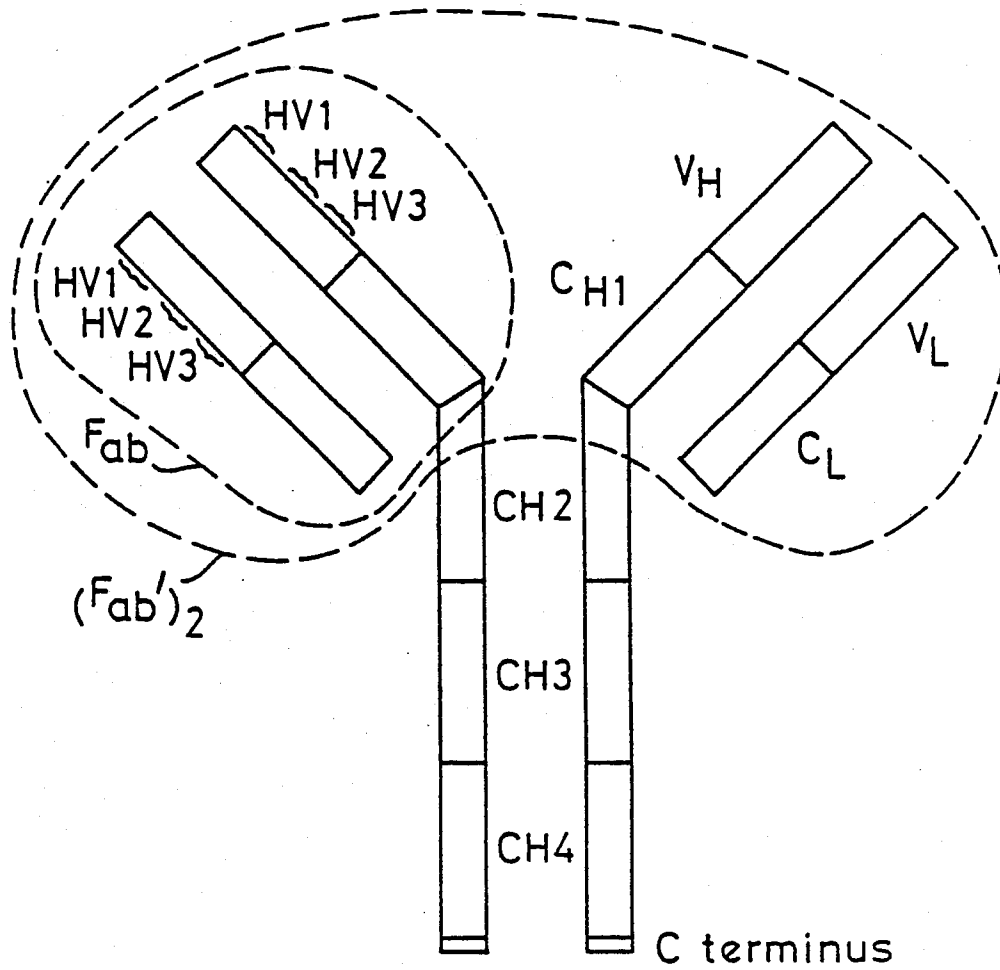
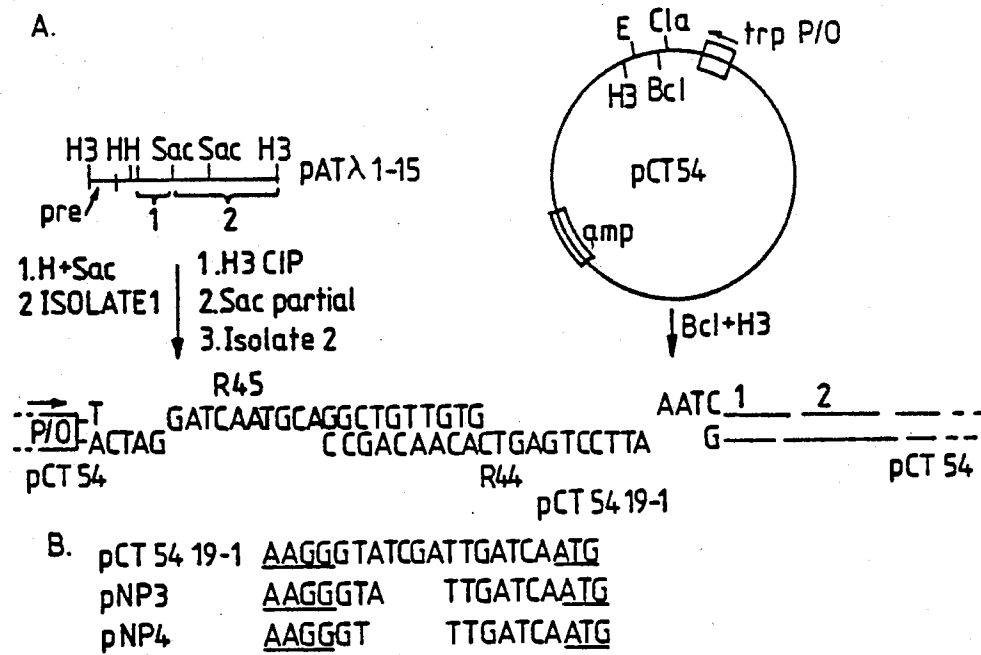


FIG. 1



Legend.

E = E corRI

H = HinfI

H3= Hind III

FIG. 2

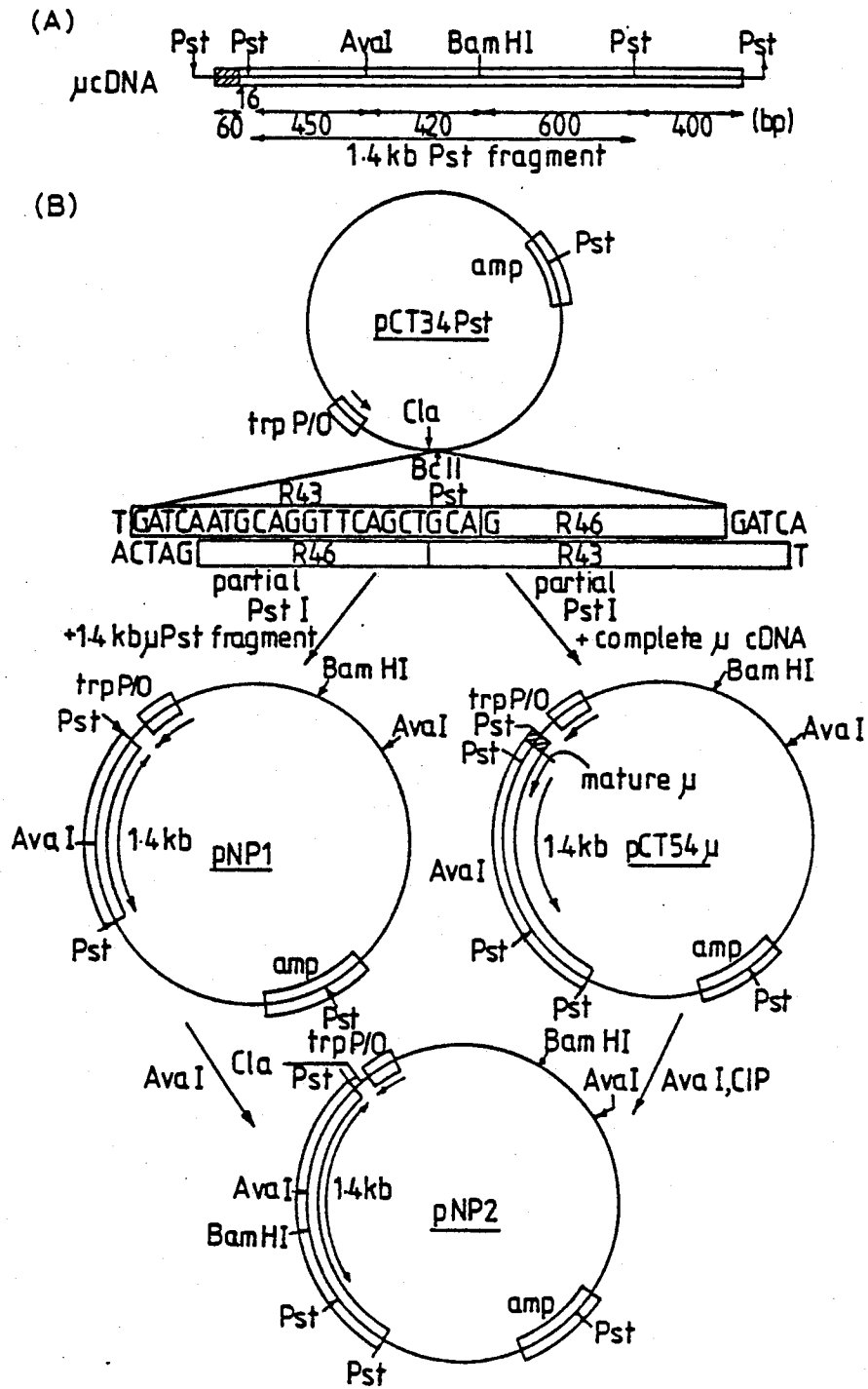


FIG. 3

Possible 2° structures of μ mRNAs

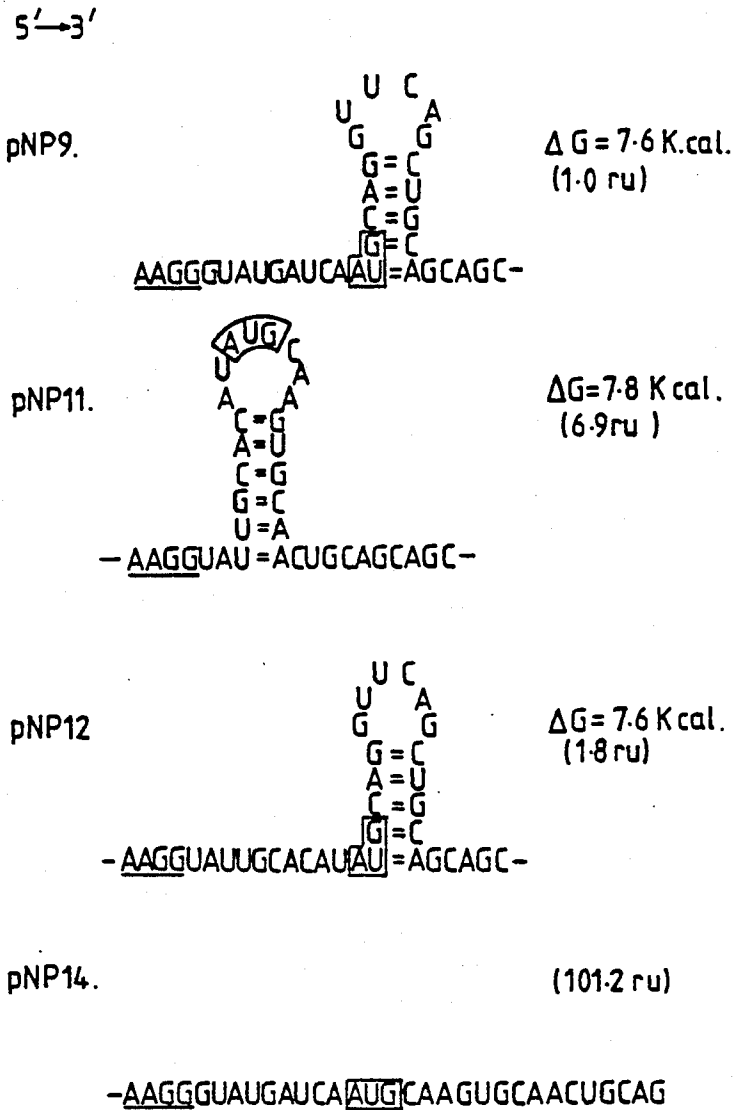


FIG. 4

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