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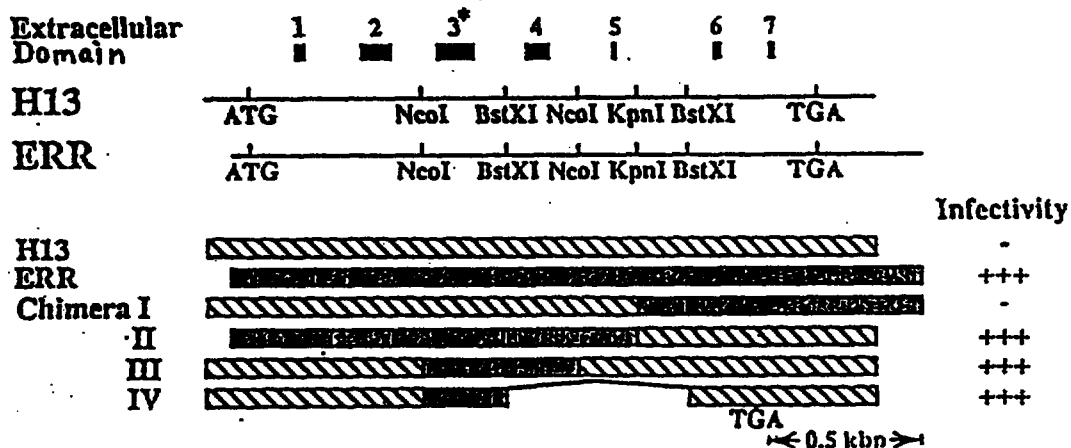
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(54) Title: CHIMERIC RECEPTOR POLYPEPTIDES, HUMAN H13 PROTEINS AND USES THEREOF

Chimeric Ecotropic Retroviral Receptor



(57) Abstract

Chimeric receptor polypeptides are disclosed which contain chimeric viral receptors of a first species which bind non-first species specific viruses and/or their envelope protein *env* binding domains, nucleic acid encoding therefore, cells or tissues expressing the chimeric receptor polypeptide, as well as methods of preparing and using thereof. Also disclosed are methods for rendering eukaryotic cells or tissues selectively susceptible to binding and/or infection by recombinant viral vectors or delivery vectors that bind a chimeric receptor of a chimeric receptor polypeptide expressed in target cells or tissues. Also disclosed are gene therapy methods which may be used on selected cells or tissues of a mammal, bird, insect or yeast through the use of transient or constitutive expression or vector association of a chimeric receptor polypeptide having a chimeric receptor binding site. The resulting chimeric receptor cells or tissues are thus rendered susceptible to infection or binding by viral vectors or *env* binding domains thereof which specifically bind the chimeric receptor. The chimeric receptor cells are then susceptible to infection and/or binding by therapeutic and/or diagnostic agents which comprise an *env* binding domain of a non-first species specific virus capable of binding a chimeric receptor polypeptide of the present invention.