

عنوان مقاله:

Cloning of HER2 Gene in pcDNA3.1 (Hygro+) expression vector for expression of HER2 receptors in surface of (eukaryotic cell line (LL2

محل انتشار:

نهمین کنگره بین المللی سرطان پستان (سال: 1392)

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خلاصه مقاله:

Cancer is a complex and multistep process that is associated with different cellular changes. Breast cancer is fifth common agent of death in the world and considered as the leading cause of cancer death among females. Various environmental and genetic factors are implicated in breast cancer. But mutations of the specific gene which called HER2 can result breast cancer. The aim of this study was cloning of HER2 receptors gene in pcDNA3.1(Hygro+) expression vectors and expression of this recombinant vector in eukaryotic cell line (LL2). These cells could be used for development of mouse breast cancer models Materials and methods: The human HER2 sequence was amplified using designed primers. The PCR products and pcDNA3.1(Hygro+) expression vector were digested by HindIII and XhoI restriction enzymes. The ligation products were transformed into murine LL2 cancer cells using lipofection method Results The HER2 sequence (extra-cellular domain, transmembrane domain and intracellular domain) was successfully amplified and cloned into pcDNA3.1(Hygro+) vector in order to express Eukaryotic HER2 receptors in LL2 cell line. Conclusion This recombinant expression vector pcDNA3.1(Hygro+) could be used for development of LL2 cell lines that express HER2 receptors at their surface

کلمات کلیدی:

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