ABSTRACT

The invention relates to DNA-sequences, especially transcription- or expression-enhancing elements (TE elements) and their use on an expression vector in conjunction with an enhancer, a promoter, a product gene and a selectable marker.

The invention describes Sequence No. 1 and TE elements TE-01, -02, -03, -04, -06, -07, -08, -10, -11 or -12. Because of their small size, TE-06, TE-07 or TE-08 are particularly preferred. Sequence No. 1 originates from a sequence region located upstream from the coding region of the Ub/S27a gene from CHO cells.

TE elements bring about an increase in the expression of the product gene when stably integrated in the eukaryotic genome, preferably the CHO-DG44 genome. Chromosomal positional effects are thereby overcome, shielded or cancelled out. In this way the proportion of high producers in a transfection mixture and also the absolute expression level are increased up to fifteen-fold.