

**SEARCH METHOD, METHOD FOR PRODUCING CELL, METHOD FOR
SELECTING CELL, AND METHOD FOR PRODUCING CELL AND CELL
PRODUCT**

ABSTRACT

One aspect of a search method includes calculating a TAD score indicating a transcriptional activity for each TAD of a genome, and selecting a TAD based on the TAD score. Another aspect of the search method includes analyzing a genome acquired from a cell expressing an exogenous gene, and selecting a boundary of a region including the exogenous gene. A method for producing a cell includes inserting a target gene into a region found by the search method. A method for selecting a cell includes calculating a TAD score indicating a transcriptional activity for each TAD of a genome, selecting a TAD based on the TAD score, and selecting a cell in which a target gene is present in the selected TAD. The cell is a cell derived from a Chinese hamster, and is a cell in which a target gene is inserted into at least one predetermined region. A method for producing a cell product includes culturing a cell to express a target gene.

Fig. 1