

Title (en)

HUMAN MP52 GENE PROMOTER AND METHOD FOR EXPLORING USEFUL SUBSTANCE BY USING THE SAME

Title (de)

PROMOTOR DES MENSCHLICHES MP52 GENS UND DESSEN ANWENDUNG ZUR UNTERSUCHUNG NUTZBARER SUBSTANZEN

Title (fr)

PROMOTEUR DU GENE HUMAIN MP52 ET PROCEDE L'ASSOCIANT DANS LA RECHERCHE DE SUBSTANCES UTILES

Publication

**EP 1086238 A1 20010328 (EN)**

Application

**EP 99923787 A 19990611**

Priority

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- JP 17094198 A 19980618

Abstract (en)

[origin: WO9966060A1] The present object is to provide a method for exploring low molecular weight compounds having osteogenetic activity or an activity to inhibit osteogenesis that shows an equal degree to human BMP proteins. A method for exploring low molecular weight compounds which regulate positively or negatively the expression of human MP52 with reference to a reporter activity by using 5' upstream region gene containing the human MP52 promoter and an animal cell into which a recombinant expression vector that has been ligated to an appropriate reporter gene has been introduced. Low molecular weight compounds and their derivatives obtained by the present method have morphogenetic activity and inhibiting activity for bone and cartilage, inducing or inhibiting activity for tendon and ligament, forming, inducing, and protecting effects on neural cells, or inducing or inhibiting angiogenic activity, and are effective as preventive or therapeutic agent for cartilage and bone diseases, therapeutic agent for injury of tendon and ligament, therapeutic agent for neural diseases, or healing agent for injury and carcinostatic, through the expression of human MP52.

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**C12N 15/85**; **C12Q 1/68**

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