

The present invention provides a method for exploring low molecular weight compounds which regulate positively or negatively the expression of human BMP-7 with reference to a reporter activity by using 5' upstream region gene containing the human BMP-7 promoter and an animal cell introduced with the vector that has been connected to an appropriate reporter gene. The low molecular weight compounds and their derivatives obtained by the present method have morphogenetic activity or inhibiting activity for bone and cartilage through the expression of the human BMP-7 and are useful as preventive or therapeutic agents for cartilage and bone diseases. Furthermore, the low molecular weight compounds and their derivatives are useful as therapeutic agents for kidney diseases.