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(54) **MANGANESE SUPEROXIDE DISMUTASE REGULATORY ELEMENTS AND USES THEREOF**

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536/24.1; 435/69.1; 435/320.1; 435/325;  
435/455

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435/455, 69.1; 536/23.1, 23.2, 24.1, 23.5

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(57) **ABSTRACT**

A novel transcriptional regulatory element which was isolated from the MnSOD gene and which exhibits promoter-enhancer activity is disclosed. The promoter-enhancer activity of the element is further modulated by inflammatory mediators to regulate transcription. Methods of using the promoter-enhancer element to regulate gene expression, and therapeutic uses involving the promoter-enhancer element are also described.