Binding Site Information what is this?

Gene : Human CD14 (CD14 molecule)

Region of the gene : Proximal promoter

Sequence : actgaaTGACATCCcagga FASTA

Sequence type : DNA

Position (relative to TSS unless stated) : from -55 to -37

Genomic coordinates : Build hg38/GRCh38: Chr5 140633234 140633252 -

Description : CRE

Promoters that the element is mapped to :

CD14 (Promoter 140633588) - Build hg38/GRCh38: Chr5 140632588 140643588 -

Binding factors (with assigned measure of interaction quality) :

CREB1(h) Quality:3 Effect: DNA binding

Experimental source of the factors :

THP-1; Human; monocytic leukemia cell line, differentiating into macrophage-like cells after PMA-treatment and with high level expression of c-fes;

THP-1 + calcitriol; Human; nuclear extract from THP-1 treated with calcitriol

Method which measured binding : Functional analysis, direct gel shift, supershift (antibody binding), gel shift competition

Matrices which have been built using the binding site :

V$CREB1_Q6

V$CREB1_Q3

Identifiers what is this?

BIOBASE accession : R28673

Annotations what is this?

- Treatment with calcitriol increases the binding activity of CREB T08562 1
- Positive regulatory element 1

References (1)

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Sl.No	PMID	Citation
1	17327484	Moeenrezakhanlou, A., Nandan, D., Shephard, L., Reiner, N. E., 1alpha,25-dihydroxycholecalciferol activates binding of CREB to a CRE site in the CD14 promoter and drives promoter activity in a phosphatidylinositol-3 kinase-dependent manner. J Leukoc Biol 81 (5) 1311-21 (2007). Show abstract

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