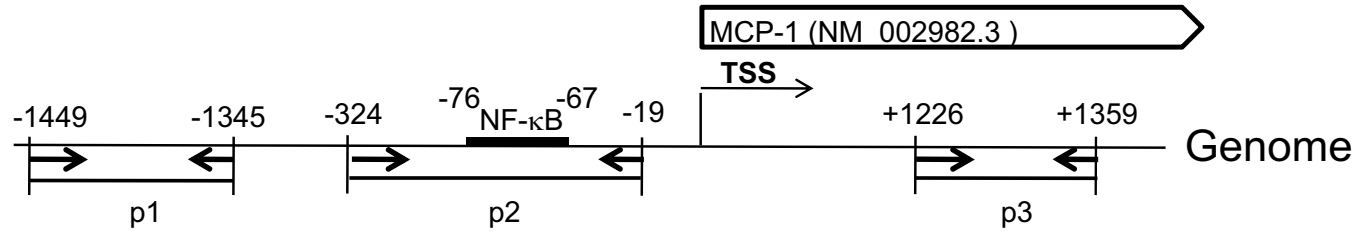
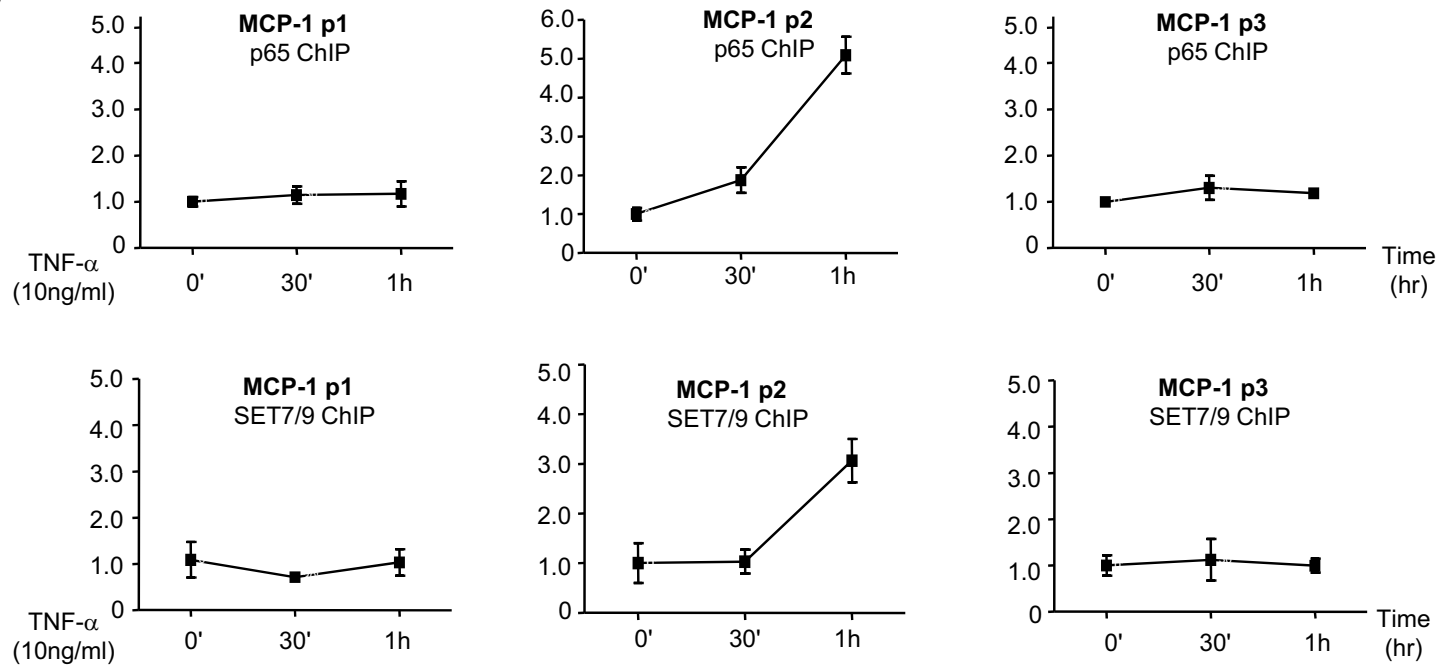


# Supplemental Figure 1

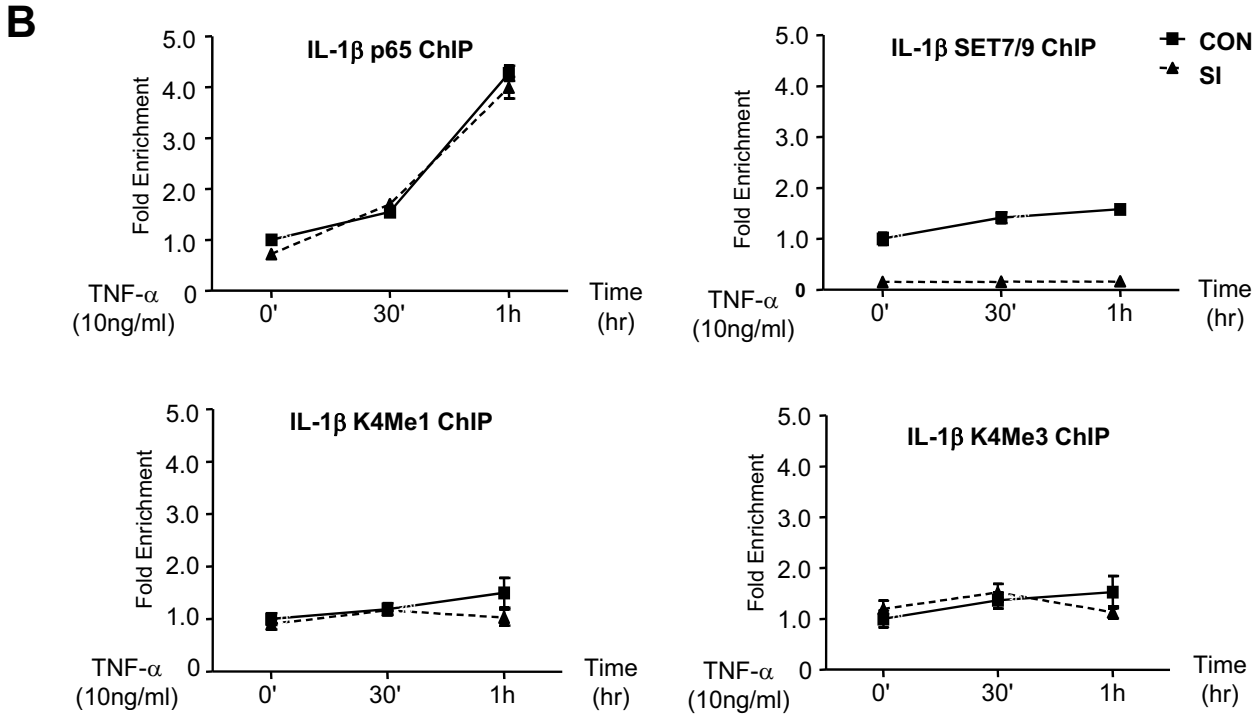
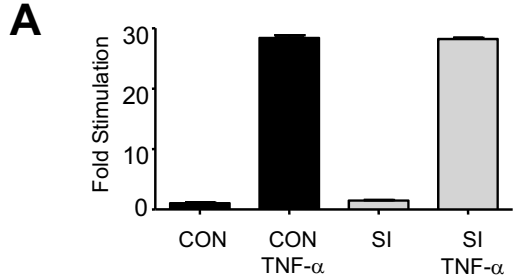
**A**



**B**



# Supplemental Figure 2



**Table S1.** Primers sequences for cDNA Expression Analysis.

	Gene	Forward Primer Sequence	Reverse Primer Sequence
Primers for RT-PCR or qPCR	MCP-1	CTTCGGAGTTTGGGTTTG CTTGTC	AGTCTCTGCCGCCCTTCT GTG
	TNF- $\alpha$	GGGCTCCAGGCGGTGCT TGTTCC	GACGGCGATGCGGCTGA TGGT
	IL-8	AGGGTTGCCAGATGCAAT AC	GCAAACCCATTCAATTCC TG
	IL1 $\beta$	CGACACCCTCGTTATCCC ATGTGTCG	CTCCGACCACCACTACA GCAAG
	JMJD-3	CGCAACTACTGCAACGA GTGCG	AGCGTGAAGGCGTCGTA GG
	BMP-2	CGGTGCAATAGCAGTTTC CATCACCG	CCACCTGCTTGCATTCTG ATTC
	IRAK-2	CGGTTGTAAGTCCTTCAG GTAAACCG	CCGCGTATCTGCCAGAG GAT
	PTX-3	GACCAAAAGACTCAAGC CTCATTGGTC	TTATTCCCAATGCGTTCC AAGA
	TNFAIP6	CGGATCATTATTGATTATG GAATCCG	TGTGCCAGTAGCAGATT GGTTA
	ICAM-1	CGGCATTACTGCACACGT CAGCCG	GTTCCCTGGACGGGCTG TTC
ChIP assay primers	MCP-1 p1	CACTAACTGAGGCCATG AACAGGTTAGTG	GCAAACCAGCACAAATG TAGCC
	MCP-1 p2	TTGGAATGTGGCCTGAA GGT	AGGGTTATTTTAAAGGAT TCTGCTTTC
	MCP-1 p3	CGTTCTGGGAGCTAGAG GAGGAACG	CTCTCCACCTGGGTGCCT ATTC
	TNF- $\alpha$	AACCGAGACAGAAGGTG CAG	TGTGCCAACAACCTGCCT TTA
	IL-1 $\beta$	ATAGTTTGCTACTCCTTG CCCTTCCATGAA	GCCAGTTTCTCCCTCGCT GTTTTTATGGCT
EMSA assay oligos	MCP-1 promoter	ACTCATGGAAGATCCCTC CT	AGGAGGGATCTTCCATG AGT
	NF- $\kappa$ B consensus oligo	AGTTGAGGGGACTTTCA GGA	TCCTGAAAGTCCCCTCA ACT

## SUPPLEMENTARY FIGURE LEGENDS

**Supplemental Figure 1. Specificity of MCP-1 promoter primer pairs for ChIP assays.** *A.* Locations of MCP-1 promoter primer pairs (p1-p3) used in this study. *B.* ChIP-qPCRs shows that recruitment of p65 and SET7/9 can only be observed using the MCP-1 promoter primer pair p2 encompassing the NF- $\kappa$ B binding sites.

**Supplemental Figure 2. SET7/9 does not regulate IL-1 $\beta$  expression.** *A.* IL-1 $\beta$  induction by TNF- $\alpha$  treatment in THP-1 cells is not affected by SET7/9 depletion (data from RT-qPCR). *B.* No evident SET7/9 recruitment or H3K4 methylation (mono- or tri-) can be observed by ChIP-qPCR on the IL-1 $\beta$  promoter upon TNF- $\alpha$  treatment. On the other hand, significant p65 recruitment can be detected which is not affected by SET7/9 depletion. Thus the co-activator effects of SET7/9 are promoter-specific.