

**Supplementary Table S1.** Primer information for DNA methylation assays

Methylation assay	Chromosomal location*	Primer information (5' to 3')		PCR information	
		Orientation	Bisulfite converted sequence	Amplicon size (bp)	Annealing temp. (°C)
TNF- $\alpha$ R1	chr6:31,542,413-31,542,518	Forward	TGTGATTATAGTAATGGGTAGGAGAATGTT	105	52
		Reverse <sup>†</sup>	TTCACTCCCTAAAACCCTCTACATAAC		
		Sequencing 1	GAATGTTTAGGGTTATGG		
TNF- $\alpha$ R2	chr6:31,543,125-31,543,346	Forward	AGG GGT ATT TTT GAT GTT TGT GTG	222	52
		Reverse <sup>†</sup>	CTA CTA ACT AAA TAT ACC AAC AAC TACC		
		Sequencing 1	GAT GTT TGT GTG TTT TTA ATT TTT TAA AT		
TNF- $\alpha$ R3	chr6:31,543,123-31,543,347	Forward	GAGGGGTATTTTGGATGTTTGTGTG	223	52
		Reverse <sup>†</sup>	CTACTAACTAAATATACCAACAACACTACC		
		Sequencing 1	ATGGGTTTTTTTTATTAAGGAAGTT		
SOCS3 R1	chr17:76,356,492-76,356,871	Forward	AGGGTIGGTAAAGAATTGG	379	50
		Reverse <sup>†</sup>	CCCTCCCTTCTAAAAAACTAATTT		
		Sequencing 1	TTTAGGTAGGTTTTTTAGAAATTGT		

SOCS3 R2	chr17:76,356,492-76,356,871	Forward	AGGGTTGGTAAAGAATTGG	379	50
		Reverse <sup>†</sup>	CCCTCCCTTCTAAAAAACTAATTT		
		Sequencing 1	GTTGGTAAAGAATTGGTAG		
SOCS3 R3	chr17:76,356,234-76,356,484	Forward	AAGTGTGAATGAGAAGTTG	251	50 ZymoTaq
		Reverse <sup>†</sup>	ACCTTCTTATAATATTTAATCACTACT		
			Sequencing 1	GTGTGAATGAGAAGTTG	

bp, base pairs. CpG, Cytosine followed by guanine nucleotide. \*According to UCSC Genome browser on human Feb. 2009, GRCh37/hg19 assembly. <sup>†</sup>Biotinylated primer.