Additional File 1. Selected 47 CpGs corresponding to 20 genes from NF-κB Signaling---

CpG sites	Symbol	Description	Function ^a
cg01636910	BCL10	B-Cell CLL/Lymphoma 10	The protein encoded by this gene contains a caspase recruitment domain (CARD), and has been shown to induce apoptosis and to activate NF-kappaB.
cg11975790	DDR1	Discoidin Domain Receptor Tyrosine Kinase 1	The protein encoded by this gene belongs to a subfamily of tyrosine kinase receptors with homology to Dictyostelium discoideum protein discoidin I in their extracellular domain, and that are activated by various types of collagen.
cg24850711	FLT1	Fms-Related Tyrosine Kinase 1	This gene encodes a member of the vascular endothelial growth factor receptor (VEGFR) family. This protein binds to VEGFR-A, VEGFR-B and placental growth factor and plays an important role in angiogenesis and vasculogenesis.
cg13297560 cg25830379	IGF1R	Insulin-Like Growth Factor 1 Receptor	This receptor binds insulin-like growth factor with a high affinity. It has tyrosine kinase activity. The insulin-like growth factor I receptor plays a critical role in transformation events.
cg12910851	IL1R2	Interleukin 1 Receptor, Type II	The protein encoded by this gene is a cytokine receptor that belongs to the interleukin 1 receptor family.
cg11683242 cg17078393 cg05350315 cg14781242 cg20239639	LCK	Lymphocyte-Specific Protein Tyrosine Kinase	This gene is a member of the Src family of protein tyrosine kinases (PTKs). The encoded protein is a key signaling molecule in the selection and maturation of developing T-cells.
cg00501919 cg01157951 cg13815684 cg14441276 cg16280132 cg17709873 cg26348243 cg02402436 cg09621572 cg09736959 cg10476003 cg11586857 cg14437551 cg14597739 cg16219283 cg17169196 cg21999229 cg24216966	LTA	Lymphotoxin Alpha	The encoded protein, a member of the tumor necrosis factor family, is a cytokine produced by lymphocytes.
cg23079808	LTBR	Lymphotoxin Beta Receptor	This gene encodes a member of the tumor necrosis factor receptor superfamily. The encoded protein

		(TNFR Superfamily, Member 3)	plays a role in signalling during the development of lymphoid and other organs, lipid metabolism,
			immune response, and programmed cell death.
cg16826777	MAP3K14	Mitogen-Activated Protein	This gene encodes mitogen-activated protein kinase kinase kinase 14, which is a serine/threonine
		Kinase Kinase Kinase 14	protein-kinase. This kinase binds to TRAF2 and stimulates NF-kappaB activity.
cg03974193	MAP4K4	Mitogen-Activated Protein	The protein encoded by this gene is a member of the serine/threonine protein kinase family. This
		Kinase Kinase Kinase 4	kinase has been shown to specifically activate MAPK8/JNK.
cg00689225		Nuclear Factor Of Kappa Light	This gene encodes a member of the NF-kappa-B inhibitor family, which contain multiple ankrin
cg16518861	NFKBIA	Polypeptide Gene Enhancer In	repeat domains. The encoded protein interacts with REL dimers to inhibit NF-kappa-B/REL
		B-Cells Inhibitor, Alpha	complexes which are involved in inflammatory responses.
cg01320698		Phosphatidylinositol-4,5-	The protein encoded by this gene is a class I PI3K found primarily in leukocytes. Phosphoinositide 3-
cg07499142	PIK3CD	Bisphosphate 3-Kinase,	kinases (PI3Ks) phosphorylate inositol lipids and are involved in the immune response.
		Catalytic Subunit Delta	kmases (113Ks) phosphoryrate mositor upius and are involved in the minimule response.
cg04610450	PIK3R2	Phosphoinositide-3-Kinase,	The protein encoded by this gene is a regulatory component of PI3K.
cg11953794	PINSKZ	Regulatory Subunit 2 (Beta)	
cg02481000	PRKCZ	Protein Kinase C, Zeta	Protein kinase C (PKC) zeta is a member of the PKC family of serine/threonine kinases which are involved in a variety of cellular processes such as proliferation, differentiation and secretion.
cg02481000		Trotem Kmase C, Zeta	
cg04916416	TGFBR2	Transforming Growth Factor,	This gene encodes a member of the Ser/Thr protein kinase family and the TGFB receptor subfamily.
0		Beta Receptor II	
cg14578677	TLR6	Toll-Like Receptor 6	The protein encoded by this gene is a member of the Toll-like receptor (TLR) family which plays a
-8-101011		*	fundamental role in pathogen recognition and activation of innate immunity.
cg22014112	TNFAIP3	Tumor Necrosis Factor, Alpha-	The protein encoded by this gene is a zinc finger protein and ubiquitin-editing enzyme, and has been
Ū		Induced Protein 3	shown to inhibit NF-kappa B activation as well as TNF-mediated apoptosis.
cg05599723		Tumor Necrosis Factor	
cg15526535	TNFRSF1B	Receptor Superfamily, Member	The protein encoded by this gene is a member of the TNF-receptor superfamily.
cg22677556		1B	
cg10721755	TRAF5	TNF Receptor-Associated	The scaffold protein encoded by this gene is a member of the tumor necrosis factor receptor-
		Factor 5	associated factor (TRAF) protein family
cg08859278	ZAP70	Zeta-Chain (TCR) Associated	This gene encodes an enzyme belonging to the protein tyrosine kinase family, and it plays a role in T-
		Protein Kinase 70kDa	cell development and lymphocyte activation.

^aThe public database GeneCards (http://www.genecards.org) was used for the annotation of the genes