

Table S1. Information of primers used for real-time PCR.

Gene	mRNA Primer Sequencing	Product length (bp)
<i>JAK2</i>	Forward: TGAAGACCGAGACCCTACAC	212
	Reverse: CTGCAAGGATTTAAGGATTTC	
<i>STAT5A</i>	Forward: GGTAGTTCTTCTGCTGGGAT	106
	Reverse: CATTCTCTGTGTCCTGCGTG	
<i>CD4</i>	Forward: AGCAGAAAGTGAAACTCGTGG	128
	Reverse: ACCAACTTCGGCTGATTGAG	
<i>GADPH</i>	Forward: AGATGGTGAAGGTCGGAGTG	200
	Reverse: CGTTCTCTGCCTTGACTGTG	

Table S2. Information of primers used for pyrosequencing assay.

Gene	DNA Methylation Sequencing	Product length (bp)
<i>JAK2</i>	Forward: GTTTTGTTTATTGTAGAGAT Reverse: GGGACACCGCTGATCGTTTAAACTAACTCACTCCCAACC Sequencing: GATTGGTTATATAGAATTTGG Assay: TTTYGGGAAAYGAATTGGYGTGTTYGGAGATTTTYGYGGT GGTTTTTGGGYGTGAGYGGGYGG	295
<i>STAT5A</i>	Forward: TTGATAGATGAGAAAATTGAG Reverse: GGGACACCGCTGATCGTTTACTACCTCTAACAAACCATACAC Sequencing: TTTATTTTTATTTTTTAGTTAT Assay: TTTYGTTTTTTTTGTTTAGTAYGGTTTGYGGTAGTTTYGYGGGGT YGTYG	325
<i>CD4</i>	Forward: GTTGGGGGGAAGAGGGTATAG Reverse: GGGACACCGCTGATCGTTTAAATCCCTTCAAAAAACCATATCTC Sequencing: TTTATAGGTATTTTTATTTT Assay: TTYGTAYGGTTTTTATTAGTTTTTTTTTAGTTYGTYGYGGAT	193

Table S3. Correlation amongst nine CpG sites in the *JAK2* gene.

	CPG1	CPG2	CPG3	CPG4	CPG5	CPG6	CPG7	CPG8	CPG9*
		0.93	0.89	0.95	0.95	0.88	0.77	0.83	0.79
CPG1	.	(0.0001)	(0.0001)	(0.0001)	(0.0001)	(0.0001)	(0.01)	(0.0001)	(0.0001)
	0.93		0.93	0.91	0.92	0.89	0.87	0.92	0.79
CPG2	(0.0001)	.	(0.0001)	(0.0001)	(0.0001)	(0.0001)	(0.0001)	(0.0001)	(0.0001)
	0.89	0.93		0.89	0.89	0.87	0.90	0.91	0.72
CPG3	(0.0001)	(0.0001)	.	(0.0001)	(0.0001)	(0.0001)	(0.0001)	(0.0001)	(0.0001)
	0.95	0.91	0.89		0.94	0.98	0.71	0.73	0.77
CPG4	(0.0001)	(0.0001)	(0.0001)	.	(0.0001)	(0.0001)	(0.01)	(0.0001)	(0.0001)
	0.95	0.92	0.89	0.94		0.92	0.76	0.81	
CPG5	(0.0001)	(0.0001)	(0.0001)	(0.0001)	.	(0.0001)	(0.01)	(0.0001)	0.85(0.0001)
	0.88	0.89	0.87	0.98	0.92		0.76	0.79	0.89
CPG6	(0.0001)	(0.0001)	(0.0001)	(0.0001)	(0.0001)	.	(0.01)	(0.0001)	(0.0004)
	0.77	0.87	0.90	0.71		0.76		0.91	
CPG7	(0.01)	(0.0001)	(0.0001)	(0.01)	0.76 (0.01)	(0.01)	.	(0.0001)	0.37 (0.16)
	0.83	0.92	0.91	0.73	0.81	0.76	0.91		
CPG8	(0.0001)	(0.0001)	(0.0001)	(0.0001)	(0.0001)	(0.01)	(0.0001)	.	0.55 (0.05)
	0.79	0.79	0.72	0.77		0.89	0.37	0.55	
CPG9	(0.0001)	(0.0001)	(0.0001)	(0.0001)	0.85(0.0001)	(0.0004)	(0.16)	(0.05)	.

*The values in brackets () show the *P* value.

Table S4. Correlation amongst seven CpG sites in the *STAT5A* gene.

	CpG1	CpG2	CpG3	CpG4	CpG5	CpG6	CpG7*
		0.93	0.92	0.95	0.85	0.83	0.81
CpG1	.	(0.001)	(0.001)	(0.001)	(0.01)	(0.01)	(0.01)
	0.93		0.93	0.91	0.82	0.79	0.77
CpG2	(0.001)	.	(0.001)	(0.001)	(0.01)	(0.01)	(0.01)
	0.92	0.93		0.91	0.81	0.79	0.72
CpG3	(0.001)	(0.001)	.	(0.001)	(0.01)	(0.01)	(0.05)
	0.95	0.91	0.91		0.64	0.71	0.77
CpG4	(0.001)	(0.001)	(0.001)	.	(0.15)	(0.05)	(0.05)
	0.85	0.82	0.81	0.64		0.82	0.69
CpG5	(0.01)	(0.01)	(0.01)	(0.15)	.	(0.01)	(0.05)
	0.83	0.79	0.79	0.71	0.82		0.76
CpG6	(0.01)	(0.01)	(0.01)	(0.05)	(0.01)	.	(0.01)
	0.81	0.77	0.72	0.77	0.69	0.76	
CpG7	(0.01)	(0.01)	(0.05)	(0.05)	(0.05)	(0.01)	.

*The values in brackets () show the *P* value.

Table S5. Correlation amongst five CpG sites in the *CD4* gene.

	CpG1	CpG2	CpG3	CpG4	CpG5*
		0.48	0.71	0.69	0.17
CpG 1	.	(0.006)	(0.0001)	(0.0001)	(0.34)
	0.48		0.51	0.36	0.57
CpG2	(0.006)	.	(0.004)	(0.05)	(0.0009)
	0.71	0.51		0.86	0.44
CpG3	(0.0001)	(0.004)	.	(0.0001)	(0.01)
	0.69	0.36	0.86		0.38
CpG4	(0.0001)	(0.05)	(0.0001)	.	(0.03)
	0.17	0.57	0.44	0.38	
CpG5	(0.34)	(0.0009)	(0.01)	(0.03)	.

*The values in brackets () show the *P* value.