TagSNPs	Chr	Position (hg19)	Allele (Ref > Alt)	ASN freq <sup>a</sup>	Location in PCAT1
rs16901904	8	128027502	T > C	0.21	intron
rs1902432	8	128024811	A > G	0.44	5'UTR
rs710886	8	128026860	C > T	0.50	intron
rs4871771	8	128029101	A > T	0.64	intron

Supplementary Table 1. Characteristics of the four selected tagSNPs in PCAT1

<sup>a</sup> The allele frequency in Asian population were obtained from HaploReg

v4.1(http://archive.broadinstitute.org/mammals/haploreg/haploreg.php).

## **Supplementary Figure legends**

**Supplementary Fig.1** DNA sequencing and transient transfection of *PCAT1* overexpression plasmid.

**Supplementary Fig.2** Differentially expressed Genes between DU145 cells treated with *PCAT1* overexpression vector and NC vector.

(a) Heatmap shows that the gene expression pattern from DU145 cells transfected with *PCAT1* overexpression vector is significantly different from that from DU145 cell transfected with NC vector. The values are color coded using a green-red scale. Red indicates up-regulated genes and the green means down-regulated genes.

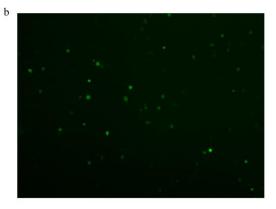
(**b**) Volcano plot shows the differentially expressed genes between DU145 cells

transfected with overexpression of *PCAT1* or NC vector. The red and green dot means significantly up-regulated and down-regulated genes, respectively.

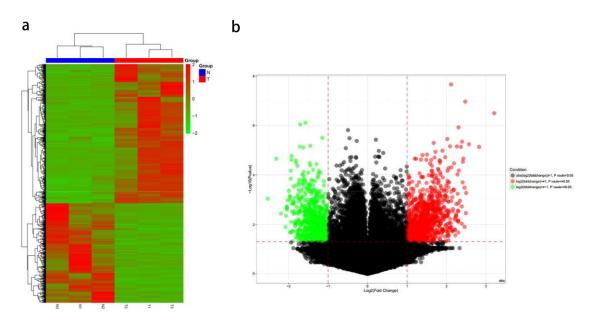
**Supplementary Fig.3** KEGG pathway analysis. Significantly enriched pathways (P < 0.05) are presented. The size of each circle means the number of differentially expressed gene enriched in the corresponding pathway.

## Supplementary Fig.1

		10 20 30 40 50 60 GAGCTGTACAAGTCCGGACTCAGATCTACACATGGATATTGGATATCTGCATAGGCAGCTGCTCCAC
X7078-1(Y8328GN).1PEGFP-C5_B01.scf(1>735)	$\rightarrow$	
		Allason Mark Inner and inner and inner and
¥83286.seq(1>2004)	$\rightarrow$	GAGCIGTACRAGICCGGRCTCAGATCIACACATGGATATIGGATATCIGCATAGGCAGCTGCCCCAC AGATCINCACATGGATATTGGATATCIGCATAGGCAGCTTGCTCCAC
<u></u>		80 90 100 110 120 130
x7078-1(Y8328GN).1PEGFF-C5_B01.scf(1>735)	$\rightarrow$	
		MADE WIND AND MARY MARY MANY MARKED AND AND AND AND AND AND AND AND AND AN
Y8328G.seq(1>2004)		CONTROL TACCT GTOCHGAT GGGAA GGAA AGAA AGGAAAGT GGCAA GGAOGCAGA AAGCA TC 70 TACCC
TE328G. seq(1>2004)	7	CGGTGCCTACCTGTGCAGATGGGAAGGAAAGGGAAAGTGGCAAGGGGGGGG
<u>.</u>		150 160 170 180 190 200 CAATITIGGTG&GACAGAATGTATGAATGTAGAAGGAACCTCTCTT
X7078-1(Y8328GN).1PEGFP-C5_B01.scf(1>735)	->	
		wilded www.wilded Www.hawtown.wilded wilded
Y8328G.seq(1>2004)	$\rightarrow$	CANTELEGY GREAK CARGAATE AT GAATE CONCOUNT AT AN TRANSPARGEMENT OF THE CONCOUNT AT A TRANSPARGEMENT OF THE CONCOUNT CARACTERIZED AND A CONCOUN
		220 230 240 250 260 270
		GTACAAAGAGCTACCTATGGTGGTCTGGGGGCGGGAGGACCACAGCATCAAAGGATATAAGATGCATAC
x7078-1(Y8328GN).1PEGFF-C5_B01.scf(1>735)	->	and the second s
		and and a statistical player that all all the base here the second states a trust
Y83285.seq(1>2004)		TELEVISION CONTRACTATION CONTRACTOR CONTRACT



## Supplementary Fig.2



## **Supplementary Fig.3**

