	9	- h						
Variables	Cases ^a	Controls	D ^c					
v ai labics	(N=1064)	(N=1073)	1					
Age, year (mean \pm SD)	50.89 ± 11.44	51.51±11.82	0.217					
Age at menarche, year (mean \pm SD)	15.23 ± 1.93	16.11±1.94	< 0.0001					
Age at first live birth, year (mean \pm SD)	25.57 ± 3.25	24.62±3.35	< 0.0001					
Age at natural menopause, year (mean \pm SD)	49.72±3.53	49.59±3.98	0.606					
Menopausal status			< 0.0001					
Premenopausal	523(49.71)	525(49.86)						
Natural menopause	451(42.87)	505(47.96)						
Unnatural menopause	78(7.41)	23(2.18)						
Estrogen receptor (ER) ^d								
Positive	490(56.39)							
Negative	379(43.61)							
Progesterone receptor (PR) ^d								
Positive	506(58.23)							
Negative	363(41.77)							

Supplementary Table 1. Demographic and selected variables in breast cancer and control patients

^a Cases were consecutively recruited from the First Affiliated Hospital of Nanjing Medical University, the Cancer Hospital of Jiangsu Province and the Gulou Hospital, Nanjing, China, from Jan 2004 to April 2010;

^b Controls were randomly selected from a cohort of more than 30,000 participants in a community-based screening program for non-infectious diseases conducted in Jiangsu Province;

^c T-tests and χ^2 tests were used for continuous or categorical variables, respectively;

^dER and PR status information was available in 869 breast cancer cases.

chr	pos (hg38)	LD	variant	Ref	Alt	ASN	Promoter	Enhancer	DNAse	Motifs	GRASP QTL	Selected eQTL
		(r ²)				freq	histone marks	histone marks		changed	hits	hits
6	71405918	1	rs763354	С	Т	0.39		12 tissues		AIRE,Sox	1 hit	1 hit
6	71409013	1	rs7349905	G	С	0.39		14 tissues	SKIN	AP-1,Mxi1,SREBP		
6	71411759	1	rs9342836	Т	С	0.39	KID, GI, LNG	11 tissues		11 altered motifs		1 hit
6	71414369	1	rs1918478	G	Т	0.39	LIV, KID, LNG	9 tissues		GATA,LUN-1		

Supplementary Table 2. Summary of the functional analyses for the linkage disequilibrium (LD) block containing rs763354 ($r^2 = 1$)

LD, r^2 between the variant and required one; Ref, reference allele; Alt, alternative allele; ASN, populations from Asia in 1000 genomes project; Promoter histone marks, Cell types where SNPs are in histone-marks of promoter; Enhancer histone marks, cell types where SNPs are in histone-marks of enhancer; DNase, cell types where SNPs are in the accessible region of DNase.

Supplementary Figure 1: The expression of miR-30a between 86 paired tumor and non-tumor tissues in the TCGA breast cancer (BRCA) datasets

