

## Supplementary

## DNA methylation alterations of rice in response to cold stress

Table S1. Adaptor and primer sequences for MSAP

Adapter and Primer	<i>EcoR</i> I	<i>Msp</i> I/ <i>Hpa</i> II
Adapter1	5'-CTCGTAGACTGCGTACC-3'	5'-GACGATGAGTCTAGA A-3'
Adapter2	5'-AATTGGTACGCAGTCTAC-3'	5'-CGTTCCTAGACTCATC-3'
Pre-amp primer	5'-GACTGCGTACCAATTCA-3'(E1)	5'-GATGAGTCTAGAACGGT-3'(HM1)
Selective primer	E1+TA(E01)	HM1+AA(HM31)
	E1+TG(E02)	HM1+A G(HM32)
	E1+TC(E03)	HM1+A C(HM33)
	E1+GA(E04)	HM1+AT(HM34)
	E1+GC(E05)	HM1+GA(HM35)
	E1+GT(E06)	HM1+GT(HM36)
	E1+CA(E07)	HM1+GG(HM37)
	E1+CG(E08)	HM1+GC(HM38)
	E1+CT(E09)	HM1+CA(HM39)
	E1+CC(E10)	HM1+CT(HM310)
		HM1+CG(HM311)
		HM1+CC(HM312)
	HM1+TA(HM313)	
	HM1+TG(HM314)	
	HM1+TC(HM315)	
	HM1+TT(HM316)	

Table S2. Modified methylation patterns of *Hpa* II and *Msp* I digested genomic DNA

Type	Methylation status	Sensitivity of enzymes		Bands patterns	
		<i>Hpa</i> II	<i>Msp</i> I	<i>EcoR</i> I/ <i>Hpa</i> II	<i>EcoR</i> I/ <i>Msp</i> I
I	CCGG C <sup>5m</sup> CGG GGCC GGCC	Insensitive	Insensitive	+	+
II	<sup>5m</sup> CCGG GGCC	Insensitive	Sensitive	+	-
III	C <sup>5m</sup> CGG GG <sup>5m</sup> CC	Sensitive	Insensitive	-	+
IV	<sup>5m</sup> C <sup>5m</sup> CGG <sup>5m</sup> CCGG GGC <sup>5m</sup> C <sup>5m</sup> GGCC <sup>5m</sup>	Sensitive	Sensitive	-	-

“+”, present; “-”, absent