

Supplemental Table 2 online. Genes whose allelic expression levels in hybrids differ from the expected values after control and PEG treatment.

		Genes showing unexpected allelic expression ratio					
Treatment	Hybrid	FDR <5%	Total		Nonadditively expressed genes		
			Overlap		FDR <5%	Overlap	
			E ^c	O		E ^c	O
Control	B73xMo17 ^a	491	27	418*	125	4	93*
	Mo17xB73 ^b	541			324		
Water deficit	B73xMo17 ^a	563	32	437*	306	8	163*
	Mo17xB73 ^b	550			238		
Control	B73xMo17 ^a	491	27	177*	125	4	52*
Water deficit		563			306		
Control	Mo17xB73 ^b	541	29	188*	324	8	89*
Water deficit		550			238		

Expected allelic expression levels are calculated from the expression level ratios of their parents: ^a $B_{B73}/M_{Mo17} \neq B_{B73xMo17}/M_{B73xMo17}$; ^b $B_{B73}/M_{Mo17} \neq B_{Mo17xB73}/M_{Mo17xB73}$. All genes for which the depicted criteria are fulfilled by applying a false discovery rate (FDR) of 5% are depicted.

^c Expected (E) values were calculated as [(# of genes with unexpected allelic ratio in B73xMo17) x (# of genes with unexpected allelic ratio in Mo17xB73)] / (total # of genes with B73-Mo17 SNP position) The numbers of expected and observed (O) overlapping genes were compared using a χ^2 -test. Significant differences between expected and observed values are indicated by *: $p \leq 0.01$.