

Supplementary Table 1: Gene Annotation of Maize Chromosome 3 BAC AC217295.3.

Gene	Position	Size (bp)	Number of exons	Number of amino acids	Syntenic Sorghum gene match	Protein Analysis		Maize EST Analysis		
						BLASTx Top Hit (Swissprot)	Eval	Maize EST	Eval	Maize Unigene set
ZmPK1	22656-26534	3879	1	1293	Sb03g043820	NP_001045202 (Os01g0917500)	0.0	DR803269	0.0	Zm.23212
ZmUK1	31961-32341	655	2	177	Sb03g043840	No significant Hit	-	DR960750	0.0	Zm.40881
ZmZFN1	40168-41085	918	1	306	Sb03g043850	NP_001045204 (Os01g0917900)	7e-65	DR958212	0.0	Zm.64787
ZmEP_1	65318-67814	2497	2	551	Sb03g043790	NP_001045199 (Os01g0917200)	0.0	EE183402	0.0	Zm.36208
ZmEP_2	117899-118353	455	2	122	Sb03g043800	ACF86199 (unknown maize)	3e-42	EE292907	0.0	Zm.41612
ZmZFN1	119558-125029	5472	7	429	Sb03g043810	ACF82040 (unknown maize)	0.0	EE039211	0.0	Zm.87717