



Figure S1 Feigl–Anger paper example for the *dhr2-1* segregating Sorghum line. The black circles indicate areas in which no HCN was released (Feigl and Anger, 1966; Kakes, 1991; Takos *et al.*, 2010; Blomstedt *et al.*, 2011; Hay-Roe *et al.*, 2011) from the EMS-treated Sorghum individuals. Blue spots indicate HCN release.



Figure S2 Photograph of young adult plants BTx623, or wild type, and acyanogenic *dhr2-1*. Gross morphological characteristics do not differ between wild type and the acyanogenic mutant.

Table S1

Pathway ¹	Gene ²	Chromosome	Position ³
Biosynthetic	CYP79A1	Chr 1	1131660-1134016 bp
	CYP71E1	Chr 1	1058885-1061083 bp
	UDP-glucose	Chr 1	1161652-1163330 bp
Catabolic	<i>Dhurrinase1</i>	Chr 8	13351340-13355948 bp
	<i>Dhurrinase1</i>	Chr 8	13743124-13746145 bp
	hydroxymandelonitrile	Chr 4	66152351-66157119 bp

¹ The pathway column references the dhurrin biosynthetic and catabolic pathways.

² Genes that fall within the dhurrin biosynthetic or catabolic pathways.

³ Position in base pairs (bp).

Table S2

	<i>dhr2</i> genotype		
	-/-	+/-	+/+
HCN	1	15	7
No HCN	25		