

Supplementary Material to “Bringing to light the molecular evolution of *GUX* genes in plants”

Table S1 - ESTs from Vettore *et al.* (2003) used to produce contigs for each *GUX* gene in sugarcane and the contig’s respective gene identifiers in the sugarcane monoploid genome (Garsmeur *et al.*, 2018; <http://sugarcane-genome.cirad.fr/>; blastp with e-value = 0).

Accession number	ESTs producing significant alignments (Vettore <i>et al.</i> , 2003)	Best hits on sugarcane monoploid genome (Garsmeur <i>et al.</i> , 2018)
sugarcane_contig1	SCCCLR1078C05.g	Sh_251G01_p000110 Sh_011C11_p000080 Sh_248J12_p000060 Sh_249M20_p000010
sugarcane_contig2	SCBFAD1091C02.g SCSGFL4C05H07.g SCCCRZ2003G11.g SCBGFL4055H08.g SCCCFL4119C02.g SCJLFL4099B06.g	Sh_143I09_contig-1_p000030
sugarcane_contig3	SCBFRZ2017F10.g SCJLSB1067D04.g SCQGST1034D01.g SCBFRZ2017F10.g SCAGFL3022E11.g SCQGLB2045H07.g	Sh_011C11_p000080 Sh_248J12_p000060 Sh_251G01_p000110 Sh_249M20_p000010
sugarcane_contigXA	SCRURT3065E10.g SCRURT3065E10.b	Sh_251G01_p000110 Sh_248J12_p000060 Sh_011C11_p000080
sugarcane_contigXB	SCJLFL4099B06.g SCEQSB1C01A06.g SCCCST3006B11.g SCSBST3102D05.g SCCCST3C06B11.g SCSGSB1006A08.g SCEZST3149H12.g	Sh_210K15_p000010