

Table 2 Several important gene families related to tuberous root formation

Family	annotated	Differentially expressed	ITRs vs. UFRs		MTRs vs. UFRs		LTRs vs. UFRs		TRs (ITRs+MTRs+LTRs) vs. UFRs	
			Up	Down	Up	Down	Up	Down	Up	Down
Transcription factors	2427	163	44	59	93	23	77	21	64	26
Hormone-related	1241	209	112	21	78	19	59	11	107	22
Cell expansion	485	83	11	22	44	23	24	19	10	19
Cell wall synthesis	103	16	5	0	14	0	3	0	16	0
Calcium signaling	381	27	7	8	11	12	8	7	10	12
Sucrose synthase	59	19	12	4	12	1	9	4	17	2
Starch synthase	59	5	5	0	3	2	3	1	5	0
Lignin-related	20	4	0	4	0	4	0	4	0	4
Cellulose-related	239	6	0	6	1	5	1	5	4	2