

S3 Table**List of jasmonic acid-related genes overexpressed in *mur1-1*.**

Jasmonic acid-related			Mutant/wild-type (fold change)
JASMONATE-ZIM-DOMAIN PROTEIN			
At1g19180	JAZ1		2.07
At1g74950	JAZ2		2.13
At1g17380	JAZ5		2.58
At2g34600	JAZ7		7.78
At1g30135	JAZ8		5.82
At1g70700	JAZ9		2.57
At5g13220	JAZ10		10.13
JA biosynthesis			
At3g45140	LOX2	Lipoxygenase	5.58
At1g72520	LOX4		1.78
At2g06050	OPR3	Oxophytodienoate-reductase	1.79
Transcription factors			
At1g43160	RAP2.6	Related to AP2.6	3.2
At1g74930	ORA47	Member of the DREB subfamily A-5 of ERF/AP2 transcription factor family	4.44
At4g17500	ERF1	Ethylene Responsive element binding Factor 1	2.48
At2g44840	ERF13	Ethylene Responsive element binding Factor 13	5.21
At4g34410	RRTF1	Redox Responsive Transcription Factor 1	4.63
At1g12610	DDF1	Dwarf and Delayed Flowering 1	2.36

At1g80840	WRKY40	WRKY DNA-Binding protein 40	2.14
At2g46510	AIB	ABA-Inducible BHLH-type transcription factor	1.8
At3g23250	MYB15	MYB domain protein 15	2.3
At4g37260	MYB73	MYB domain protein 73	1.83