

Table S.1 List of significant genes responded to 56MESS (0.45 mM) treatment for 1 h

Genes	Systemic name	Fold Change	Genes	Systemic name	Fold Change
<i>up</i> -regulated genes			<i>up</i> -regulated genes		
FIT2	YOR382W	12.442	EEB1	YPL095C	1.516
ARN2	YHL047C	11.321	<i>down</i> -regulated genes		
FIT3	YOR383C	6.116	GRX4	YER174C	-1.503
FRE1	YLR214W	5.644	HEM13	YDR044W	-1.503
YLR307C-A	YLR307C-A	4.845	SUR1	YPL057C	-1.512
TIS11	YLR136C	4.685	TPS2	YDR074W	-1.513
ARN1	YHL040C	4.651	YIR014W	YIR014W	-1.515
FRE2	YKL220C	4.408	YEL007W	YEL007W	-1.518
ENB1	YOL158C	4.250	ILV6	YCL009C	-1.538
FRE5	YOR384W	3.742	MNN4	YKL201C	-1.541
YLR031W	YLR031W	3.615	JSN1	YJR091C	-1.548
SIT1	YEL065W	3.182	TPO4	YOR273C	-1.551
HMX1	YLR205C	2.970	YBL086C	YBL086C	-1.552
RSB1	YOR049C	2.684	HOM3	YER052C	-1.573
ARO9	YHR137W	2.371	YOR356W	YOR356W	-1.575
SPR28	YDR218C	2.345	CSR1	YLR380W	-1.591
YHR140W	YHR140W	2.095	CAF120	YNL278W	-1.591
CCC2	YDR270W	2.085	DDP1	YOR163W	-1.596
GTO3	YMR251W	2.051	NDI1	YML120C	-1.605
YDR374C	YDR374C	1.977	ECM40	YMR062C	-1.656
FRM2	YCL026C-A	1.976	ICY2	YPL250C	-1.696
ADH2	YMR303C	1.972	GLT1	YDL171C	-1.708
YLR012C	YLR012C	1.950	ACH1	YBL015W	-1.727
YOR387C	YOR387C	1.930	CCP1	YKR066C	-1.727
ANS1	YHR126C	1.928	FMP43	YGR243W	-1.737
FRE3	YOR381W	1.925	YPR036W-A	YPR036W-A	-1.784
PRM5	YIL117C	1.908	XBP1	YIL101C	-1.804
FYV12	YOR183W	1.895	ECM17	YJR137C	-1.838
ECM11	YDR446W	1.886	SAM3	YPL274W	-1.874
LOH1	YJL038C	1.882	SDH1	YKL148C	-1.904
FTR1	YER145C	1.841	STR3	YGL184C	-1.905
SLZ1	YNL196C	1.834	MET17	YLR303W	-1.922
PUG1	YER185W	1.831	PHM7	YOL084W	-1.933
CTR1	YPR124W	1.813	YNR014W	YNR014W	-1.946
SPO19	YPL130W	1.738	ARG4	YHR018C	-1.969
DTR1	YBR180W	1.728	SUL2	YLR092W	-1.981
VMR1	YHL035C	1.715	MET13	YGL125W	-1.997
FRE6	YLL051C	1.692	CPA2	YJR109C	-2.016
YDR089W	YDR089W	1.692	MET28	YIR017C	-2.021
SRD1	YCR018C	1.685	CYC7	YEL039C	-2.069
PDH1	YPR002W	1.681	SDH2	YLL041C	-2.149
YNR004W	YNR004W	1.668	RTC2	YBR147W	-2.184
CIT3	YPR001W	1.658	CAR2	YLR438W	-2.306
GAL10	YBR019C	1.653	PCL5	YHR071W	-2.326
MRPS28	YDR337W	1.598	ARG1	YOL058W	-2.345
FIG1	YBR040W	1.565	YGL117W	YGL117W	-2.567
CRG1	YHR209W	1.557	PTR2	YKR093W	-2.699