

Supplemental table S6. Altered GS-OX activity in the T1 generation FMO_{GS-OX4} overexpression lines

Glucosinolate (GSL) content in seeds were analyzed. MT: (MS+MT) represents the S-oxygenation activity for the conversion from methylthioalkyl GSL to methylsulfinylalkyl GSL.

MT:(MS+MT)	T1 35S:: FMO_{GS-OX4}		Col-0		
	Mean ^a	SE ^b	Mean	SE	P_{gene}^c
Propyl GSL(C3)	0.69	0.001	0.68	0.003	NS ^d
Butyl GSL(C4)	0.67	0.001	0.74	0.001	0.01
Pentyl GSL(C5)	0.47	0.002	0.81	0.005	<0.001
Hexyl GSL(C6)	ND ^e		ND		
Heptyl GSL(C7)	0.33	0.002	0.75	0.011	0.002
Octyl GSL(C8)	0.13	0.004	0.33	0.005	0.02

^aMean is the mean value of MT:(MS+MT) of each given group; ^bSE is standard error for the mean value; ^c P_{gene} is the P value for the differences between the two genotypes, wild-type versus 35S:: FMO_{GS-OX4} overexpression lines; ^dNS indicates non-significant P values($P>0.05$); ^eND indicates that the given GSL was not detectable, therefore no statistical analyses was conducted.