

Supplemental table S3. *Ler x Cvi short-chain aliphatic leaf GS-OX Analysis*

Marker	DF	TIII SS	F	P
HH375	1	0.03	1.38	0.257
GSELONG	1	0.20	7.44	0.014
GH157	1	0.18	6.65	0.020
EC198	1	0.08	3.01	0.102
GH157*HH375	1	0.16	5.93	0.026

ANOVA was utilized to test previous short-chain glucosinolate data from the *Ler x Cvi* RIL population for QTL located at the position of the two FMO_{GS-OX} clusters. These two markers are HH375 and GH157. In addition any previously identified significant main-effect QTL was included in the ANOVA. Type III Sums-of-squares, F value and P value for each term are presented.