

Table S1: Aliphatic metabolites in the Bay ×Sha population

Phenotype	Abbreviation	# of lines below detection level
3-Methylthiopropyl-glucosinolate	MT3	45
Allyl-glucosinolate	Allyl	201
3-Hydroxypropyl-glucosinolate	OHP3	7
4-Methylthiobutyl-glucosinolate	MT4	203
4-Methylsulphinylbutyl-glucosinolate	MSO4	183
3-Butenyl-glucosinolate	But-3-enyl	158
7-Methylthio-heptyl-glucosinolate	MT7	230
8-Methylthio-octyl-glucosinolate	MT8	1
8-Methylsulphinyl-octyl-glucosinolate	MSO8	0