

#### 4.1.1 At1g69530, AtEXP1: $\alpha$ -Expansin1

Col is relatively enriched in unassigned absorbances at  $1608\text{ cm}^{-1}$  (with no accompanying  $1420\text{ cm}^{-1}$  to indicate carboxylate) and unassigned peaks at  $1157$  and  $1119\text{ cm}^{-1}$ . The mutant is relatively enriched in a non-methyl ester ( $1770\text{ cm}^{-1}$ ) and unassigned absorbances at  $1053$  and  $1022\text{ cm}^{-1}$ . Note similar spectrotpe to AtEXP9.

