Supplemental Data. Gigolashvili et al. (2009). The plastidic bile acid transporter 5 is required for the biosynthesis of methionine-derived glucosinolates in *Arabidopsis thaliana*.



Supplemental Figure 1. Histochemical GUS staining in various tissues of *ProBAT1-4:GUS* plants. Seedlings (A), flowers (B), siliques (C), inflorescences (D), foliar parts (E), and roots (F) are shown. . Bar = 500 μ m in (A1-A4) and (D1-D4), 150 μ m in (B1-B4), (C1-C4), (F1-F4) and 1000 μ m in (E1-E4).



Supplemental Figure 2. Plastidic localization of the *BAT1, BAT2, BAT3 and BAT4* full-length-GFP construct in BY tobacco protoplasts. Bar = $10 \mu m$.



Supplemental Figure 3. Transcript levels of known glucosinolate biosynthesis regulators in leaves of *bat5* and *Pro*₃₅*S*:*amiBAT5* plants in comparison with the wild type (Col-0), **(A-F)**, relative gene expression values are given compared to wild type (=1) for MYB34, MYB51, MYB122, MYB28, MYB29 and MYB76. Means ± SD, (n=3). *Significantly different in comparison to the wild type (Student's t-test, P<0.05).



Supplemental Figure 4. Content of the indolic glucosinolate indol-3-ylmethyl-GS in *bat5* mutant fed with 2-keto acids (A) or amino acids (B).

Plants were germinated on $\frac{1}{2}$ MS plates with agar and 2-week-old wild-type and *bat5* seedlings were transferred to media supplemented with 0.2 mM MTOB (4-methylthio-2-oxobutanoate), MTOP (6-methylthio-2-oxopentanoate), MTOH 6-methylthio-2-oxohexanoate, Met (methionine) or DiHoMeth (dihomomethionoine), respectively, for 14 additional days, followed by analyses of aliphatic glucosinolates. Means <u>+</u> SD, n=5.