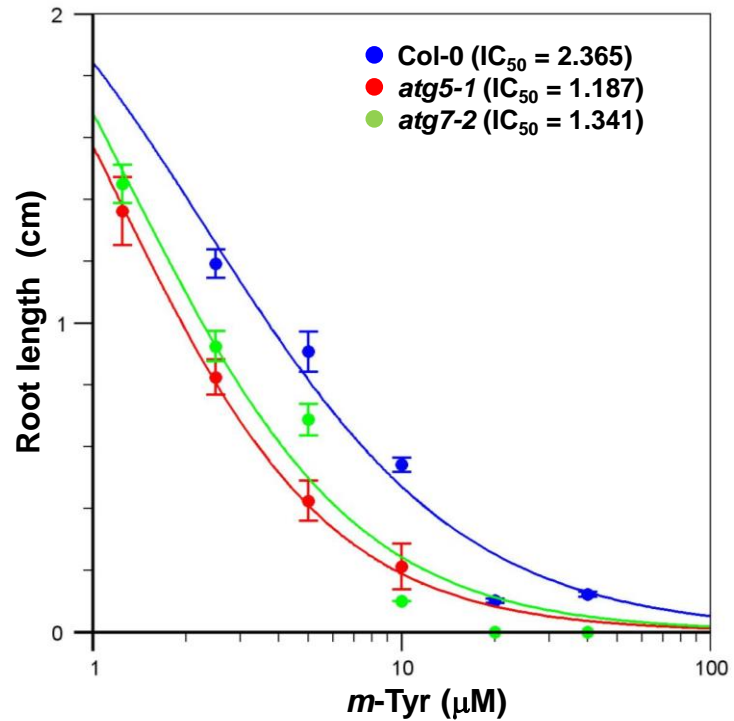


a*m*-Tyr (μ M) 0 1.25 2.5 5 10 20 40

Col-0

*atg5**atg7***b**

Supplemental Figure S5. The effect of *m*-tyrosine on root growth of *Arabidopsis thaliana* wild-type and *atg* mutants.

(A) 5-day-old *Arabidopsis* seeds of wild-type (Col-0), *atg5* and *atg7* mutant-lines, were germinated in MS-agar plates in the absence ('0') or presence of *m*-tyrosine (1.25 to 40 μ M). Bar in panel A represents 1.0 cm. (B) Measurements of the root lengths in 5-day-old *Arabidopsis* seedlings. IC_{50} (i.e., concentrations required to achieve 50% reduction of *Arabidopsis* root growth) was calculated from the relative root lengths of 5-day-old *Arabidopsis* seedlings grown at different *m*-tyrosine concentrations, using the 'Quest-Graph™ IC50 calculator' (<https://www.aatbio.com/tools/ic50-calculator>). The values are means of four biological replicates with about 25 seedlings in each treatment. Error bars indicate one standard deviation. Asterisk in panel B indicates a significant difference from control (Student's T-test, $P \leq 0.05$).