Figure S1: α-PheRS or α-PheRS<sup>Cys</sup> were overexpressed using the esg-Gal4,UAS-2XEYFP;tub-Gal80<sup>ts</sup> (=esg<sup>ts</sup>) system that allowed us to control the expression time to study the kinetics of the appearance of the phenotypes. The kinetics of the Notch knockdown resembled partially the one of PheRS<sup>Cys</sup> expression (esg<sup>ts</sup> / UAS-α-PheRS<sup>Cys</sup>). Animals were mated at 18°C, and adults of the required genotypes were collected and shifted to 29°C to inactivate Gal80<sup>ts</sup>. Adult midguts were dissected from female flies after the indicated induction times.