

## Description of Additional Supplementary Files

Title: Supplementary Movie 1.

Description: TTC19 KD zebrafish recover ETR after the treatment with 100 nM PYO. It is shown that ETR is induced by a single and gentle stimulation at the tail of the larvae, which leads the embryo escaping to reach the border of 15 cm Petri disk.

Title: Supplementary Movie 2.

Description: PYO shows no toxicity in vivo in mice. The movie shows adult mice treated with PYO (10 nmol/gbw) i.p. once daily, 5 days a week, for two months. Mice are active and show no signs of distress.