S1-Figure 1. *Ticinolepis longaeva* gen. et sp. nov., photograph of MCSN 8475 preserved in left lateral view showing ribs, pelvic bones and several articulated scales exposed in mesial view. Small arrow point to first preserved rib. Scale bar = 1 cm.
S1-Figure 2. Ticinolepis longaeva gen. et sp. nov., photograph of MCSN 8317 preserved in right lateral view showing partially preserved braincase and other skull bones and partially preserved pectoral girdle and fin.
S1-Figure 3. *Ticinolepis longaeva* gen. et sp. nov., photographs of MCSN 8351 preserved in left lateral view. A, Overview of the complete specimen; scale bar = 2 cm. B, Skull; scale bar = 1 cm. C, Caudal fin; scale bar = 1 cm.
S1-Figure 4. *Ticinolepis longaeva* gen. et sp. nov., photographs of MCSN 8008 preserved in left lateral view. A, Overview of the complete specimen; scale bar = 2 cm. B, Skull; scale bar = 1 cm.
S1-Figure 5. *Ticinolepis longaeva* gen. et sp. nov.. A, Disarticulated skull of PIMUZ T 4785 preserved mostly in mesial view. B, Partially articulated skull of PIMUZ T 4788 preserved mostly in right lateral view with the detached frontals and left supraorbitals preserved in dorsal view. Scale bars = 0.5 cm.
S1-Figure 6. *Ticinolepis longaeva* gen. et sp. nov., skull of PIMUZ T 4987 preserved in right lateral view. A, Overview of the complete specimen; scale bar = 2 cm. B, Skull; scale bar = 1 cm. C, Caudal fin; scale bar = 1 cm.
S1-Figure 7. *Ticinolepis longaeava* gen. et sp. nov., skull of MCSN 8073 preserved in right lateral view. A, Overview of the complete specimen; scale bar = 2 cm. B, Skull; scale bar = 1 cm. C, Caudal fin; scale bar = 1 cm.
S1-Figure 8. *Ticinolepis crassidens* sp. nov., PIMUZ T 438 preserved in left lateral view except for the skull roof, which is disarticulated and preserved in dorsal view. Overview of the complete specimen; scale bar = 2 cm.
S1-Figure 9. *Ticinolepis crassidens* sp. nov., skull roof in PIMUZ T 401 preserved in dorsal view. A, Photograph. B, Line drawing. Scale bars = 5 mm.
S1-Figure 10. *Ticinolepis crassidens* sp. nov., skull in PIMUZ T 2823 preserved in right lateral view. Scale bar = 5 mm.