

Supplemental Figure 1: Representative saturation curves for ³⁵S-BSP uptake by HeLa cells stably transfected with rOATP1A1, rOATP1A4, or both 4 or 24 hrs after induction of transporter expression or in uninduced controls. Uptake of ³⁵S-BSP was determined as described in Methods for uninduced HeLa cells (panels A and B), and cells incubated with zinc for 4 hrs (C and D) or 24 hrs (E and F). Data were fit to the equation $v = \frac{v_{max}[S]}{K_m + [S]} + a[S]$ where v is the initial rate of uptake of ³⁵S-BSP, $[S]$ is the concentration of ³⁵S-BSP, and a is a linear term representing non-carrier mediated diffusional uptake as described in Methods. Representative studies are shown and fit parameters are provided in the boxes in each figure. Y-axis scales have been kept constant for all studies. Appropriate protein expression in zinc-induced cells was confirmed by immunoblot.

Supplemental Figure 2: Representative saturation study of uptake of ³⁵S-BSP by HEK293 cells transiently transfected with mEGFP-rOATP1A1. Uptake of ³⁵S-BSP was determined as described in Methods. Data were fit to the equation $v = \frac{v_{max}[S]}{K_m + [S]} + a[S]$ where v is the initial rate of uptake of ³⁵S-BSP, $[S]$ is the concentration of ³⁵S-BSP, and a is a linear term representing non-carrier mediated diffusional uptake as described in Methods. Fit parameters are shown in the box.

Supplemental Figure 3: Time dependent uptake of ³H-digoxin by HeLa cells stably transfected with rOATP1A1, rOATP1A4, or both. Cells were incubated with or without zinc for 24 hrs and uptake over time of 0.1 μ M ³H-digoxin was determined as described in Methods. Appropriate protein expression in zinc-induced cells was confirmed by immunoblot. Three representative experiments for each cell line are shown: Panels A-C rOATP1A1; Panels D-F

rOATP1A4; and Panels G-I rOATP1A1 coexpressed with rOATP1A4. Uptake by uninduced cells is represented by circles, and uptake by induced cells is represented by squares.





