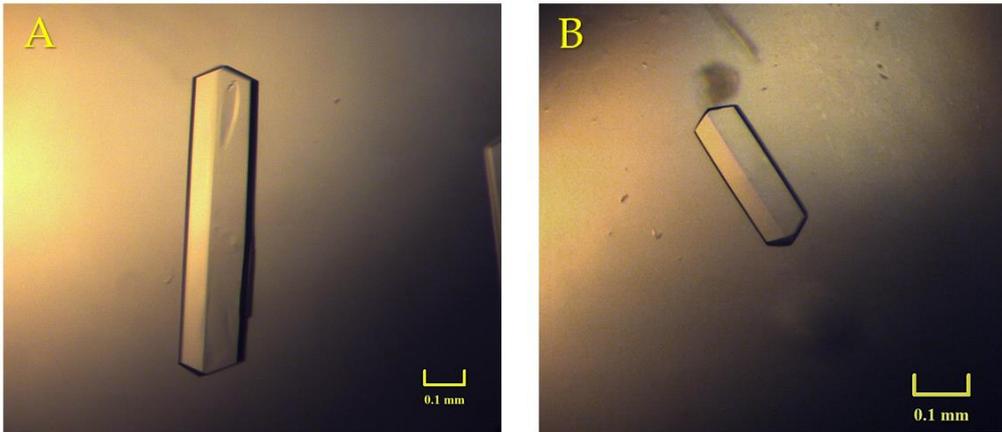
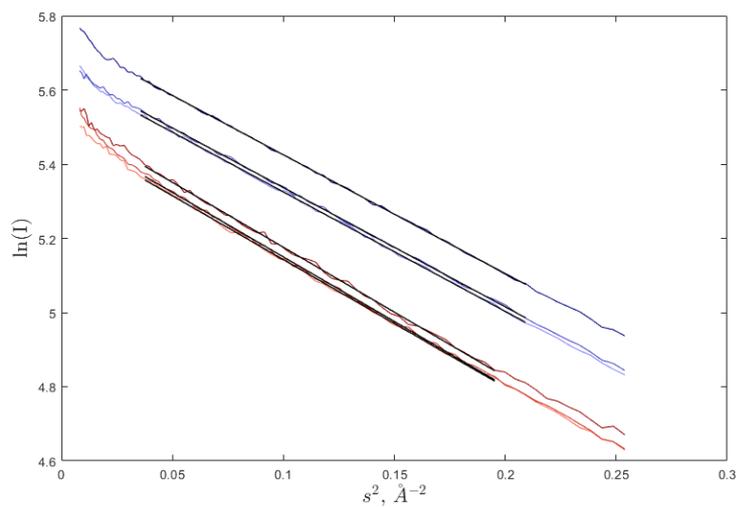


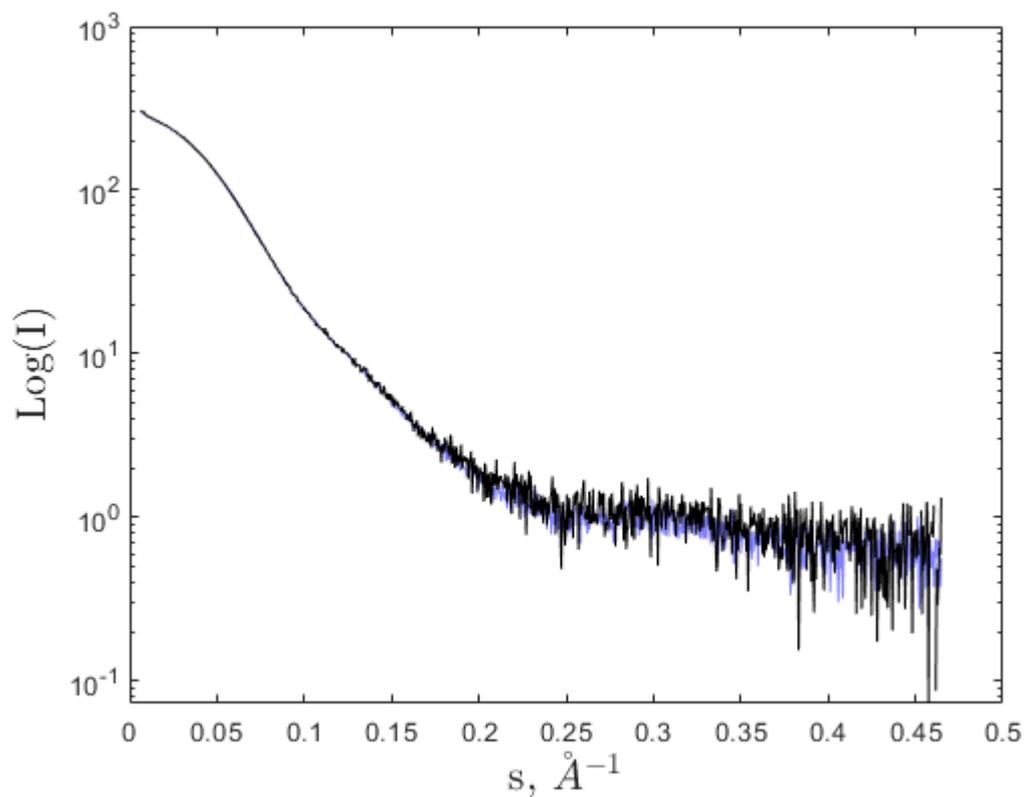
## Supplementary Material



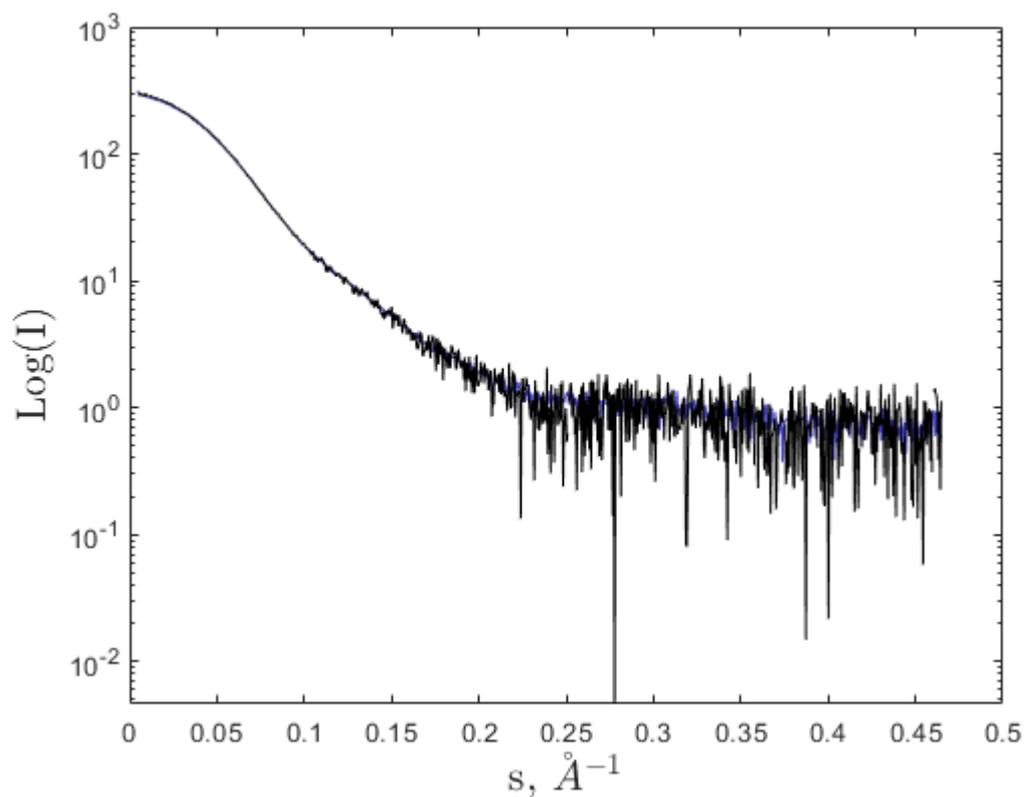
**Figure S1** . Transferrin crystals obtained by vapor-diffusion. Both apo-Tf and holo-Tf were crystallized under the same conditions, at  $20 \text{ mg mL}^{-1}$  stock solution using Index screen #88 as precipitating agent (Hampton Research Corporation) at  $18^\circ \text{C}$ . However, the crystal in B, grown from a holo-Tf solution, probably corresponds to apo-Tf as it appears to have lost its iron and looks very similar to the apo-Tf (A) crystal.



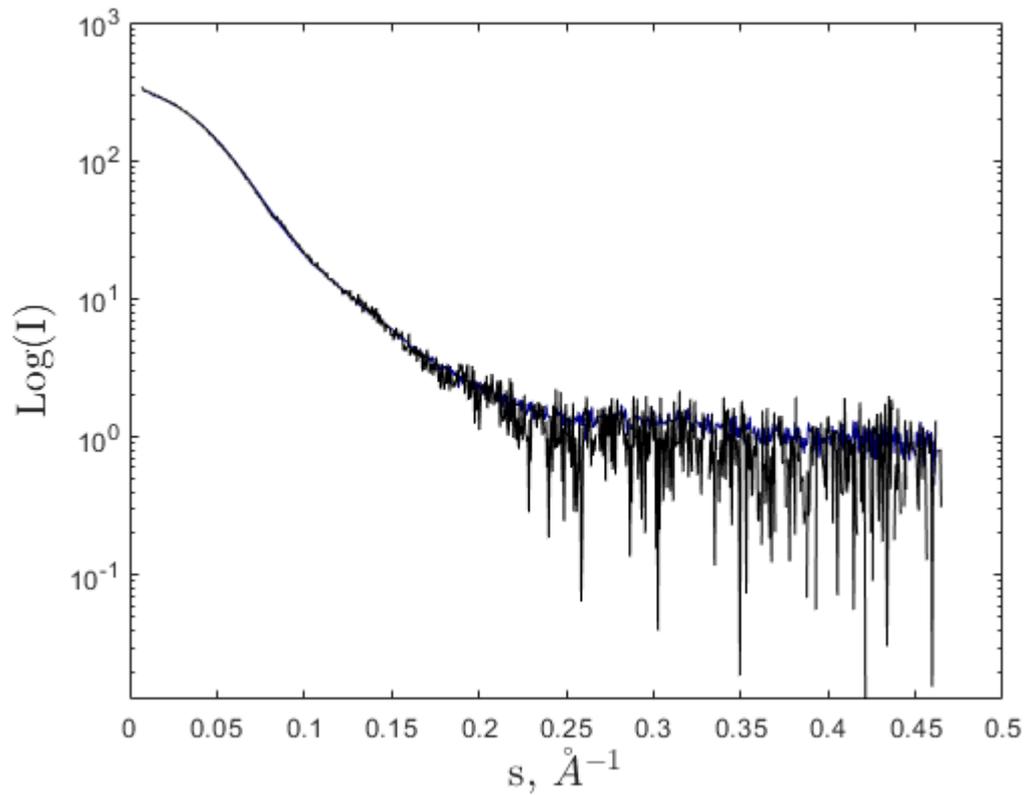
**Figure S2** Guiner plot range and the linear fitting (black color).



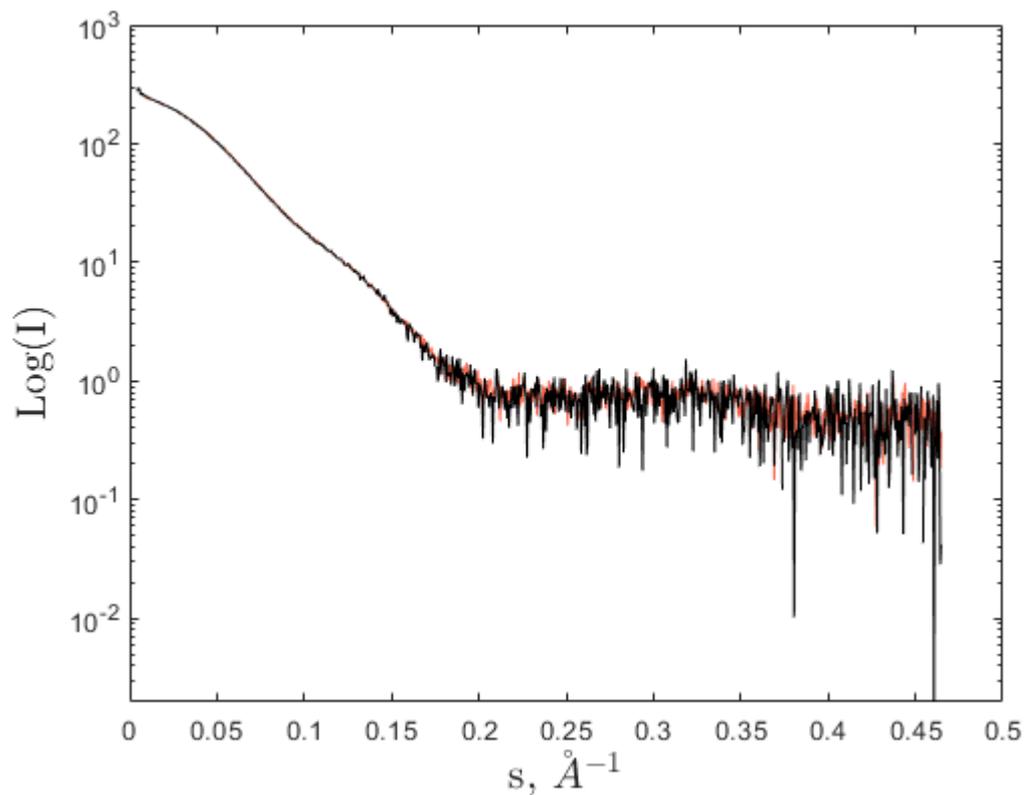
**Figure S3.** Experimental Log10 SAXS intensity versus scattering vector  $s$ , for apo-Tf pH 8.0 at concentration 5 mg mL (same color gradient used in Figure 2A) and 2.5 mg ml ( black color)



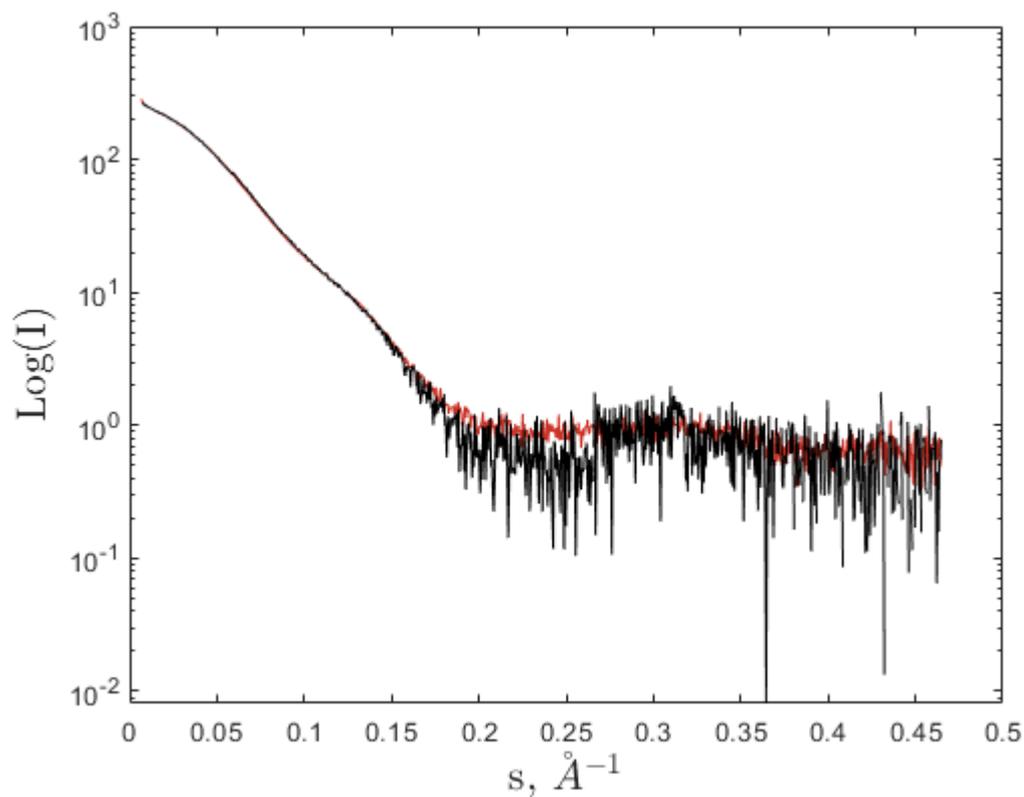
**Figure S4.** Experimental Log10 SAXS intensity versus scattering vector  $s$ , for apo-Tf pH 7.0 at concentration 5 mg mL (same color gradient used in Figure 2A) and 2.5 mg ml ( black color)



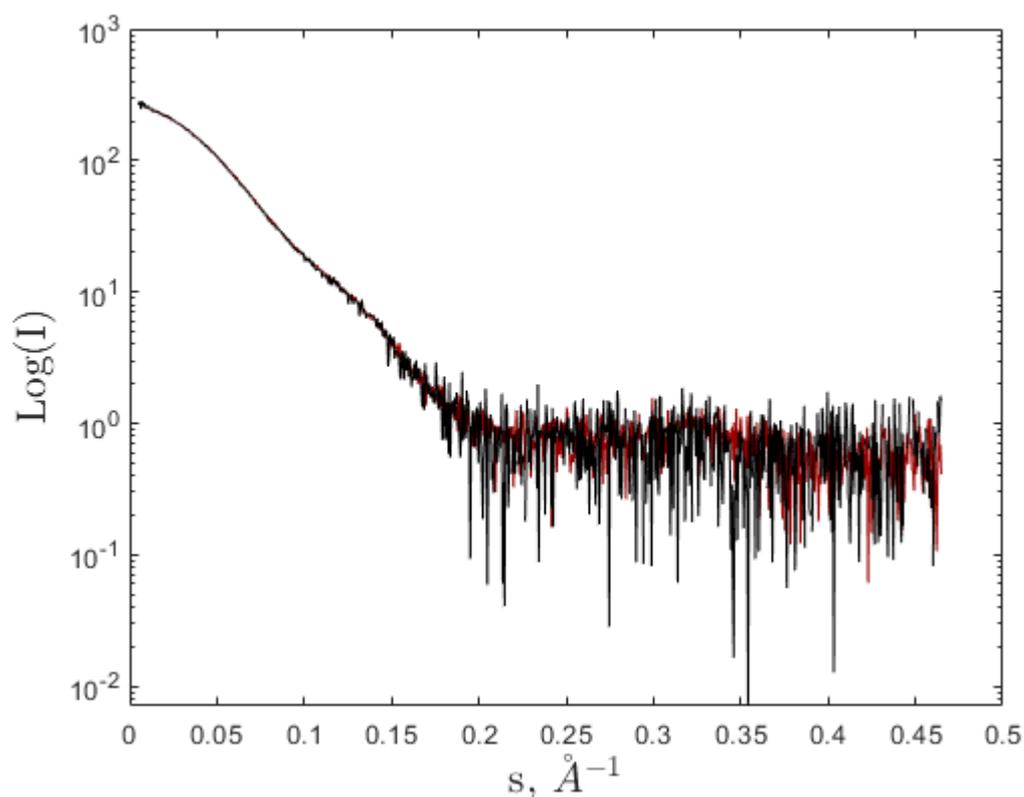
**Figure S5.** Experimental Log10 SAXS intensity versus scattering vector  $s$ , for apo-Tf pH 5.5 at concentration 5 mg mL (same color gradient used in Figure 2A) and 2.5 mg ml ( black color)



**Figure S6.** Experimental Log10 SAXS intensity versus scattering vector  $s$ , for holo-Tf pH 8.0 at concentration 5 mg mL (same color gradient used in Figure 2A) and 2.5 mg ml ( black color)



**Figure S7.** Experimental Log10 SAXS intensity versus scattering vector  $s$ , for holo-Tf pH 7.0 at concentration 5 mg mL (same color gradient used in Figure 2A) and 2.5 mg ml ( black color)



**Figure S8.** Experimental Log10 SAXS intensity versus scattering vector  $s$ , for holo-Tf pH 5.5 at concentration 5 mg mL (same color gradient used in Figure 2A) and 2.5 mg ml ( black color)