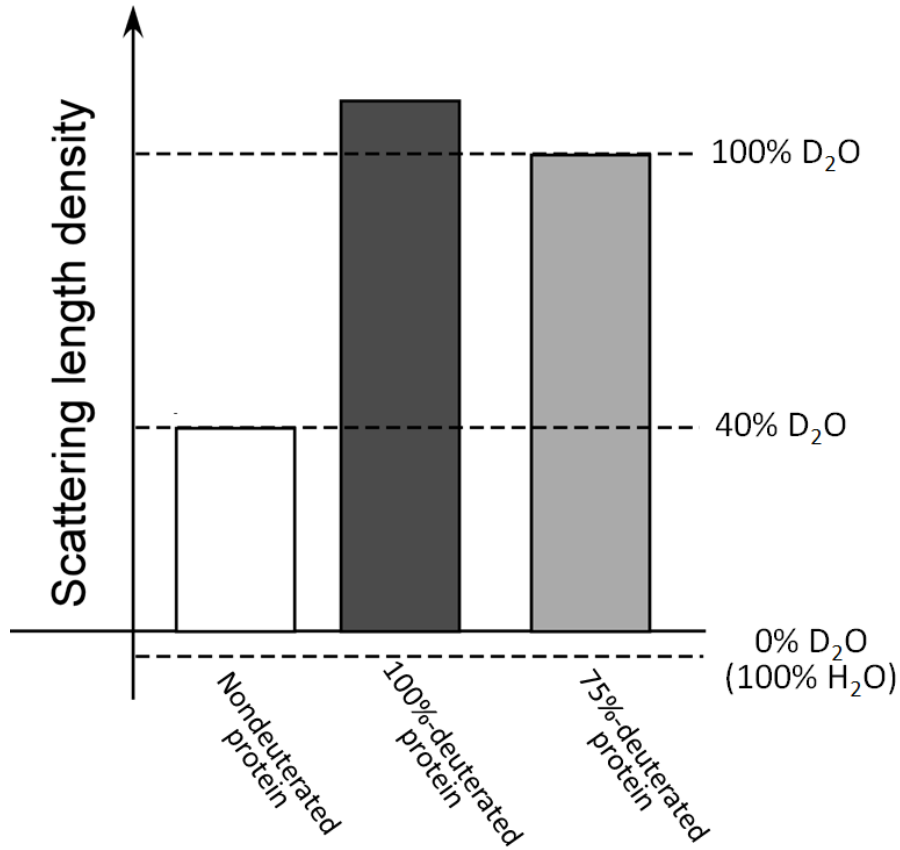


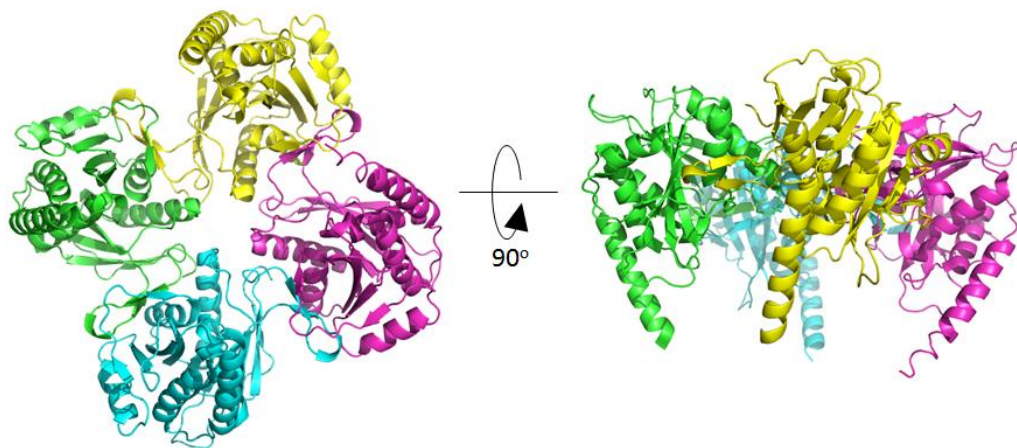
Supplementary information

Supplementary Fig.1



**Supplementary Figure 1:** Schematic of scattering length densities of a protein with different degrees of deuteration. The scattering length densities in 0%, 40%, and 100% D<sub>2</sub>O solutions are  $-0.056$ ,  $0.221$ , and  $0.636$  fm/Å<sup>-3</sup>, respectively.

Supplementary Fig.2



**Supplementary Figure 2:** Crystal structure of the PbaB tetramer (PDB accession code: 3VR0)

(Kumoi *et al.*, 2013).