

**Table S8.** RMS deviations from SSM fitting between mouse SMP30/GNL in the substrate-free form and other related structures.

<b>Enzyme</b>	<b>rmsd (Å)</b>	<b>Alignment length</b>
mouse SMP30/GNL-1,5AG complex	0.14	297
DFPase (1PJX) *	1.8	254
Drp35 (2DG1) *	2.1	250
PON (1V04) *	2.9	234

\* PDB ID is given in parentheses.