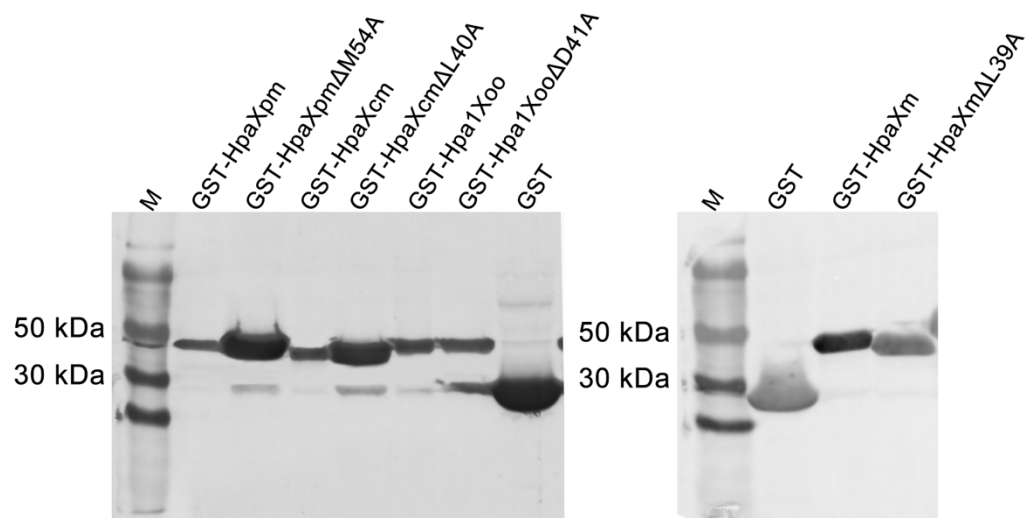




Additional file 2. Western blot analysis of efficient expression of Hpa1, and their mutants. Wild-type Hpa1, their mutants and GST (negative control) were probed with a polyclonal antibody specific for GST and then a goat anti-rabbit IgG-HRP antibody. The induced bacterial cultures were ultra-sonicated followed by centrifugation. The resulting supernatants were used as soluble protein samples. M, molecular markers. Molecular mass marker in size (kDa) is indicated on the left-hand side.