



Supplementary Figure 3 SEC-MALS of YejM241-586 and YejL.

SEC-MALS studies of YejM241-586 (red line), YejL (blue line) and their 1:1 complex (magenta). 100 μ L total volume of protein sample was injected onto a Superose 6 increase 10/300 GL column (GE Healthcare) attached to a multiangle light-scattering system equipped with Dawn Helios II light scattering detector and an Optilab T-rEX differential Refractive Index (dRI) detector (all Wyatt Technology Corporation). Data collection and analysis was carried out using Astra 5 software (Wyatt Technology Corporation). The software calculated protein molecular weight and concentration based on a refractive index increment dn/dc value of 0.185 mL/g. The entire experiment was carried out at 25 $^{\circ}$ C. YejL (blue line) resulted in an absolute molecular mass of 14.6 kDa (\pm 1.2 kDa), which is higher than the calculated molecular weight of 10 kDa. Yejm241-586 alone (red line) resulted in an absolute molecular mass of 29.6 kDa (\pm 0.2 kDa), which is considerably lower than the calculated molecular mass of 41.1 kDa. The mixture of YejM241-586 and YejL (magenta line) resulted in an absolute molecular mass of 32.9 kDa (\pm 1.3 kDa), which is closer to the calculated molecular weight of YejM241-586. In fact, in all our SEC-MALS experiments for YejM241-586, the highest absolute molecular mass observed was 33 kDa, independent of concentration. This corresponds with the size at which YejM241-586 runs on the SDS-PAGE and SEC (Figure 1B/D in main manuscript).