



**S3 Fig: Covalent intermolecular bond formation assay between tag-MBP and respective mCherry-catcher proteins.** Purified tag-MBP and mCherry-catcher proteins were mixed each at 15  $\mu\text{M}$  (final conc.) for 24h at 25°C with shaking at 500 rpm before boiling (10min, 95°C) and SDS-PAGE with Coomassie staining. (A) Time course of 3kptN<sup>T</sup>-MBP and mCherry-3kptN<sup>C</sup> reaction. (B) Time course of 3phs<sup>T</sup>-MBP and mCherry-3phs<sup>C</sup> reaction. Lane 1: mCherry-catcher input (30 $\mu\text{M}$ ), lane 2: tag input (30 $\mu\text{M}$ ), lane 3: 0h, lane 4: 1h, lane 5: 2h, lane 6: 3h, lane 7: 4h, lane 8: 24h. Same volume was loaded on the gel. MW stands for molecular weight (kDa).