Table S2. Binding kinetic parameters of untagged YsaL (analyte) to his tagged YsaN and its deletion mutants. YsaN and its deletion mutants were immobilized as ligands and YsaL was used as an analyte with varying concentrations of 5nM, 10nM, 20nM and 50nM.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Ligand | Analyte | Forward rate -ka (M-1s-1) | Backward rate -kd (s-1) | Association constant KA (M-1) | Dissociation constant KD (M) |
| YsaN | Untagged YsaL  | 3.45 X 103 | 1.19 X 10-4 | 2.9 X 107 | 3.5 X 10-8 |
| YsaNflr | Untagged YsaL  | 4.54 X 103 | 1.91X 10-5 | 2.38 X 108 | 4.2 X 10-8 |
| YsaN Δ (1-5) | Untagged YsaL | 2.19 X 102 | 1.08 X 10-2 | 2.03 X 104 | 5 X 10-4 |
| YsaN Δ (1-20) | Untagged YsaL | NBD | NBD | NBD | NBD |
| YsaN (21-410) | Untagged YsaL | NBD | NBD | NBD | NBD |
| YsaN Δ (411-430) | Untagged YsaL | 5.1 X 102 | 1.32 X 10-4 | 3.86 X 106 | 2.6 X 10-7 |
| YsaN Δ (426-430) | Untagged YsaL | 2.01 X 102 | 2.28 X 10-4 | 8.82 X 105 | 1.14 X 10-7 |

NBD- No Binding