

**S2 Table.** Dissociation constants  $K_d$  calculated on the basis of the thermophoresis curves.

<b>Compound</b>	<b><math>K_d</math> [<math>\mu\text{M}</math>]</b>
Tat1	4.82 ( $\pm 0.39$ )
Tat1_A4-6	12.07 ( $\pm 1.27$ )
Tat1_A8-10	13.47 ( $\pm 0.58$ )
Tat1_A4-5,8-9	22.27 ( $\pm 1.41$ )
Tat1_4-5TO	8.91 ( $\pm 0.31$ )
Tat1_8-9TO	10.39 ( $\pm 1.36$ )
Tat1_8-9TOD	8.14 ( $\pm 0.53$ )
Tat1_4-5TO,8-9TOD	8.38 ( $\pm 1.16$ )