**Supplementary file 4:** Poly (GT) repeats binding capacity (N), apparent dissociation constant (*K*D), and thermodynamic parameters for RRM1-2 protein mutants, as determined by ITC. *a* and *b* correspond to apparent dissociation constants *K*D1 and *K*D2, respectively. The thermodynamic parameters (ΔH, TΔS, ΔG) and χ2 values were expressed in kcal/mol and (kcal/mol)2, respectively.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Protein** | **Poly (GT) repeats** | **N** | **KD (M)** | **ΔH** | **TΔS** | **ΔG** | **χ2** |
| **T141A/G142A** | **(GT)6** | 0.89 ± 2.9e-3 | 50.9e-9 ± 3.12e-9 | -30.3 ± 0.182 | -20.40 | -9.95 | 0.111 |
| **(GT)12** | 0.40 ± 1.1e-4 | **a** 52.3e-9 ± 4.23e-10  **b** 3.8e-9 ± 7.47e-11 | -15.3 ± 0.441  -63.1 ± 0.345 | -5.33  -51.60 | -9.93  -11.50 | 0.264 |
| **G146A** | **(GT)6** | 0.82 ± 2.1e-3 | 77.9e-9 ± 5.01e-9 | -26.0 ± 0.204 | -16.30 | -9.70 | 0.084 |
| **(GT)12** | 0.41 ± 4.3e-3 | **a** 196e-9 ± 4.83e-10  **b** 10.1e-9 ± 6.81e-11 | -17.0 ± 0.321  -72.3 ± 0.253 | -7.88  -61.40 | -9.15  -10.90 | 0.252 |
| **Q213A** | **(GT)6** | 0.83 ± 4.3e-3 | 48.3e-9 ± 7.86e-9 | -31.4 ± 0.458 | -21.40 | -9.98 | 0.799 |
| **(GT)12** | 0.36 ± 1.0e-3 | **a** 50.4e-9 ± 3.02e-10  **b** 0.2e-9 ± 6.39e-12 | -16.1 ± 0.409  -81.2 ± 0.435 | -6.18  -67.80 | -9.96  -13.40 | 0.626 |