



Supplemental Figure S8

Supplemental Figure S8: Titration of HPI RNA by Mg²⁺

(A) Imino-protons region of 1D spectra recorded at 15°C in 50 mM sodium phosphate buffer (pH 6.2) at different magnesium chloride concentrations. The ratio (Mg²⁺:RNA) and the Mg²⁺ concentration are indicated on the left and on the right, respectively. Broken lines and bold assignments indicate imino protons that undergo variations. (B) Overlays of regions of ¹H-¹⁵N HSQC spectra showing the imino proton H1-N1 of selectively labeled [¹³C/¹⁵N-G] HPI at 30°C, Mg²⁺-free (black) and upon successive additions of magnesium. Arrows indicate the cross-peaks that shifted upon addition of magnesium. (C) Chemical shifts changes of the ¹H_{8c} and ¹³C₈ ($\Delta\delta_{ave} = [(\Delta\delta^{1H})^2 + (\gamma_C/\gamma_H)^2 * (\Delta\delta^{13C})^2]^{1/2}$) upon titration of selectively labeled [¹³C/¹⁵N-G] HPI with Mg²⁺ are plotted as a function of the Mg²⁺:RNA ratio.