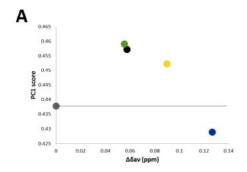
Supplementary Material

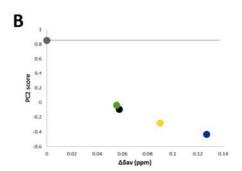
Figure S1 - Correlation of principal component scores with chemical shift perturbation. Each plot shows the correlation of free RNA15 RRM (grey), and RNA15 RRM upon addition of NNNAN (black), NNNCN (green), NNNGN (blue), NNNUN (yellow) at protein to RNA ratios of 1:1. The score for the free spectrum is marked with a grey line across the plot for ease of comparison. The x-axis shows the weighted average chemical shift of peaks used in manual analysis. The y-axis shows the calculated score for the (A) first, (B) second, (C) third, (D) fourth, and (E) fifth principal components.

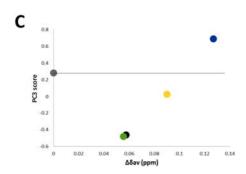
Figure S2 – The comparison of spectral changes upon addition of an RNA pool for RNA15 RRM, T-STAR KH and TUT4 CCHC-ZnF3 shows that because of the smaller size of the ZnF domain a lower number of resonances shift upon RNA binding. Overlaid ¹H-¹⁵N SOFAST-HMQC spectra of A) free 25μM RNA15 RRM (red) and with NNNGN at protein to RNA ratio 1:1 (blue), B) free 40μM T-STAR KH (red) and with NNNAN at protein to RNA ratio 1:2, C) free 100μM TUT4 CCHC-ZnF3 (red) and with NNGN at protein to RNA ratio 1:4

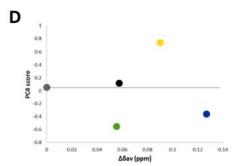
Table S1 – Percentage variance accounted for by each of the five PCs for each position analysed in RNA15 RRM, TSTAR KH and TUT4 CCHC-ZF3.

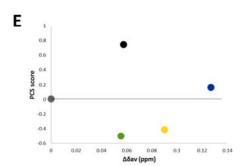
FigureS1











FigureS2

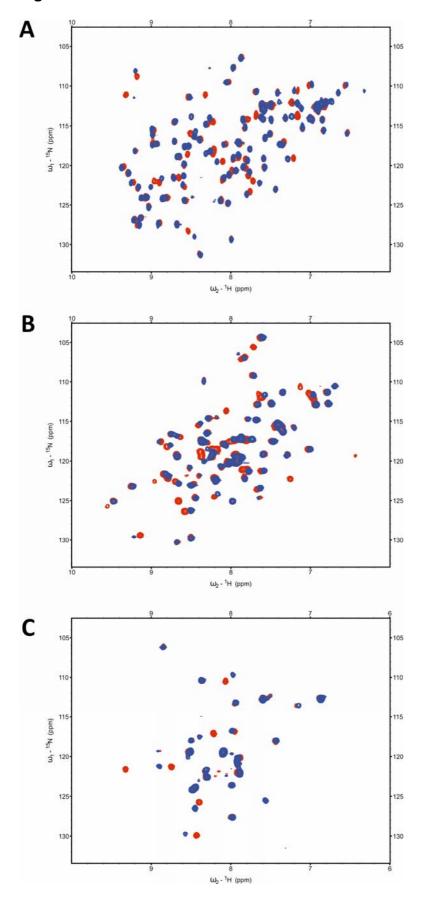


Table S1

RNA15 RRM

	PC1	PC2	PC3	PC4	PC5
Position 1	82.2	7.08	4.16	2.81	2.75
Position 2	84.63	6.42	3.34	2.78	2.84
Position 3	83.19	6.62	4.52	2.95	2.72
Position 4	85.52	6.11	3.05	2.62	2.69

TSTAR KH

	PC1	PC2	PC3	PC4	PC5
Position 1	75.73	8.63	6.06	4.82	4.69
Position 2	78.22	7.57	5.31	4.21	4.67
Position 3	76.35	8.38	6.13	4.73	4.4
Position 4	79.25	7.62	4.46	4.32	4.34

TUT4 CCHC-ZF3

	PC1	PC2	PC3	PC4	PC5
Position 1	58.2	12.97	9.51	9.67	9.65
Position 2	57.13	12.52	10.85	9.83	9.68
Position 3	57.78	12.86	9.87	9.75	9.74