Supplementary Figure 2 Comparison with the reference of individual resonance reconstructions for 3D HNCA of azurin. All peaks with reported $^{15}\text{N} - ^{1}\text{H}^{\text{N}}$ backbone assignment are shown: 1st column of each cell is the reference spectrum; 2rd column is the R-MDD reconstruction from the sparse data. $^{13}\text{C} - ^{1}\text{H}^{\text{N}}$ regions for the amides of the backbone resonances are shown above the $^{13}\text{C} 1\text{D}$ cross-sections, taken at the peak centers.

The $^{15}\text{N}$, $^{1}\text{H}$, and $^{13}\text{C}$ peak positions are indicated in ppm; the cell sizes in ppm are indicated of the 1st page. The plots have the same intensity threshold and contour multiplication factor of 1.3. For better visibility, the 1D cross-sections of weak signals were scaled up. The corresponding scaling factors (1x or 3x) are indicated for all peaks.