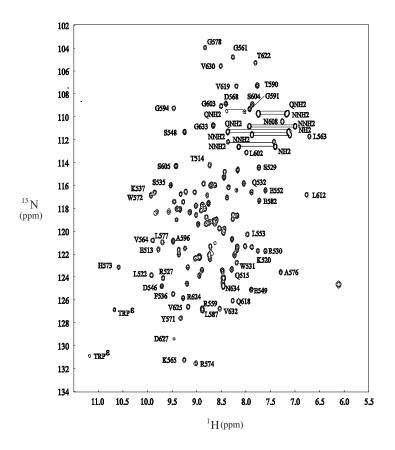
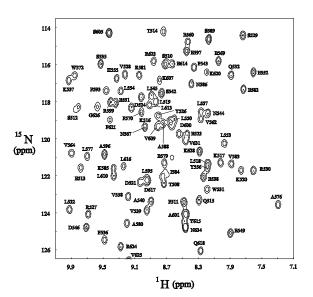
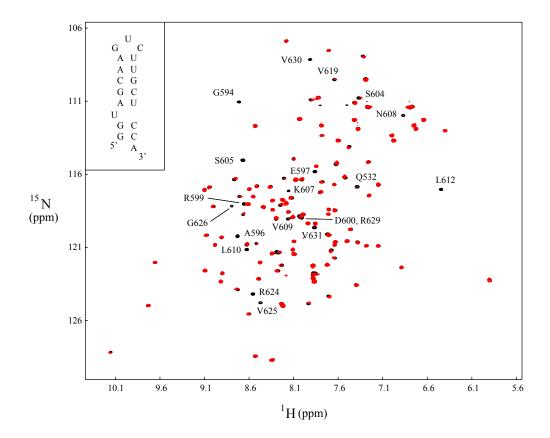


Supplementary Figure 1. Native gel analysis of SECIS-MT. Lane 1, 8 base-pair marker; lane 2, SECIS-MT in H₂O; lane 3, SECIS-MT in 1M NaCl. The SECIS-MT exists as a hairpin in H₂O but in the presence of lM NaCl as a mixture of duplex and hairpin conformations.





Supplementary Figure 2. ¹H, ¹⁵N HSQC of unbound SelB₅₀₈₋₆₃₄ at 20° C with the assignments labeled.



Supplementary Figure 3. Spectral overlay of the SelB₅₀₈₋₆₃₄ ¹H, ¹⁵N HSQC (black) and the SelB₅₀₈₋₆₃₄/SECIS-Ecoli complex ¹H, ¹⁵N HSQC (red). Data were acquired at 25° C. Peaks that disappear in the RNA-bound form are annotated. Inset: Secondary structure of the *fdnG* SECIS element used in binding studies.