

Figure S1. MS/MS spectra of peptides with PTMs.

Figure S2. Labeling efficiencies of four representative ^{15}N -histone H3 peptides.

To evaluate the incorporation of ^{15}N , unpropionylated ^{15}N -labeled H3 was digested with trypsin and ratios of H/L were quantified using Mascot Distiller. Analysis of raw MS spectra showed at least 99% incorporation suggesting that the labeling process was highly efficient.

Figure S3. Mass analysis of WT and ^{15}N intact histone H3 illustrating similar profiles and complexity of PTMs.