

a

AltLINC01420^{nc}

MGDQPCASGRSTLPPGNAREAKPPKKRCLLAPRWDYPEGTPNGGSTTLPSAPPPASAGLKSHPPPEK

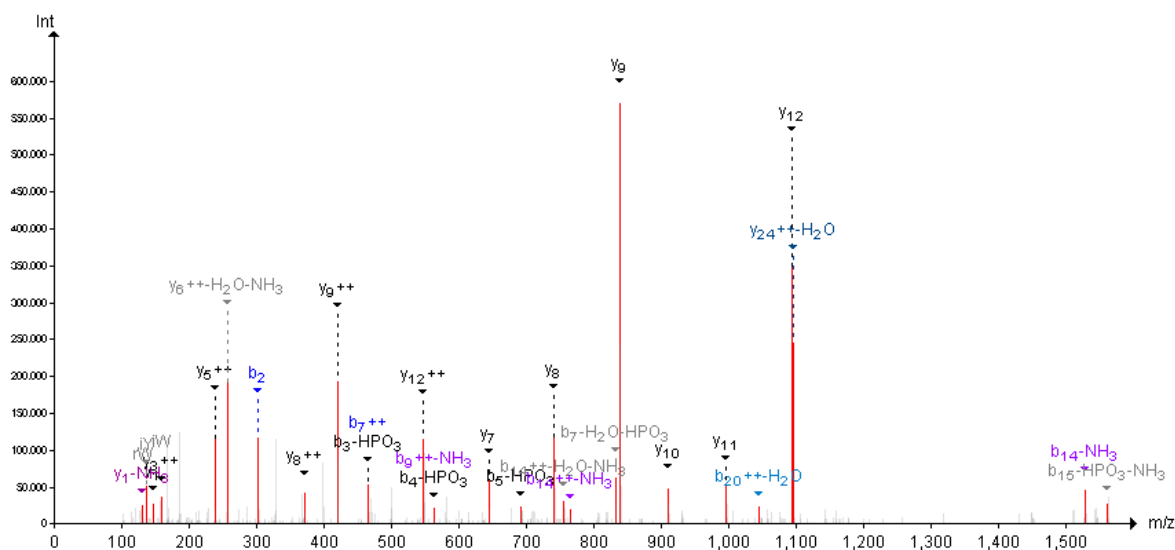
b

Spectrum & Fragment Ions (PR - NH2-WDY<p>PEGTPNGGSTTLPSAPPPASAGLK-COOH - SH 3+ 917.09 m/z)

□ _ ↕ ?

NH2-W D Y P E G T P N G G S T T L P S A P P P A S A G L K-COOH

m/z = 917.09
[M+3H]³⁺ = 2751.27 Da



c

Spectrum & Fragment Ions (PR - NH2-WDYPEGTPNGGSTTLPSAPPPASAGLK-COOH - SH 3+ 890.43 m/z)

□ _ ↕ ?

NH2-W D Y P E G T P N G G S T T L P S A P P P A S A G L K-COOH

m/z = 890.43
[M+3H]³⁺ = 2671.29 Da

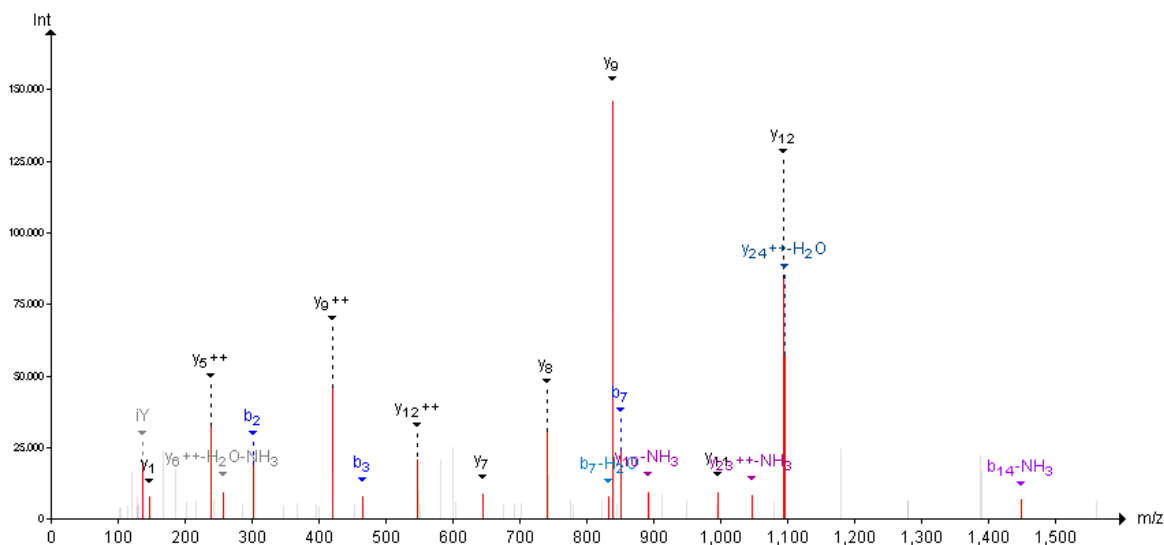


Figure 6-figure supplement 1. Example of a phosphorylated peptide in mitosis - alternative protein AltLINC01420^{nc} (LOC550643, IP_305449.1).

(a) AltLINC01420^{nc} amino acid sequence with detected peptides underlined and phosphorylated peptide in bold (73,9% sequence coverage). (b) MS/MS spectrum for the phosphorylated peptide (PeptideShaker graphic interface output). The phosphorylation site is the tyrosine residue, position 2. (c) MS/MS spectrum for the non-phosphorylated peptide. The mass difference between the precursor ions between both spectra corresponds to that of a phosphorylation, confirming the specific phosphorylation of this residue in mitosis.