Figure 1-figure supplement 1

A

1a. Design 198 peptide libraries...

-5 -4 -3 -2 -1 0 +1 +2 +3 +4

~Z-X-X-X-X-S/T-X-X-X-X~(biotin)

~X-Z-X-X-X-S/T-X-X-X-X~(biotin)

⋮

~X-X-X-X-X-S/T-X-X-Z-X~(biotin)

~X-X-X-X-X-S/T-X-X-X-Z~(biotin)

Z = fixed amino acid
X = Mix of all amino acids (no C, S, or T)

1b. ... and design three phospho-acceptor peptide libraries

-5 -4 -3 -2 -1 0 +1 +2 +3 +4

~X-X-X-X-X-S-X-X-X-X~(biotin)

~X-X-X-X-X-T-X-X-X-X~(biotin)

~X-X-X-X-X-Y-X-X-X-X~(biotin)

X = Mix of all amino acids (no C, S, T or Y)

3. Add kinase and [γ-^{33}]-ATP
Analyze phoshorylation of peptide

2. Array in multiwell plate

B