Table S1. List of small sequences of short listed proteins using selection criteria # 1 (i.e. proteins with known *O*-GlcNAc modification site(s) (**Sg/Tg**) having proline at either -/+1 and/or -/+3 position (**P**), with potential tyrosine phosphorylation site (**Y**) in the vicinity) showing known *O*-GlcNAc site(s) with potential tyrosine phosphorylation site(s) in the vicinity. Similar residues in prohibitin are also shown.

Protein	Sequence
Bassoon	1414 **Sg**P**Sg**T**g**S**g**S**g**TIH**Sg**Y**GQP**P**T**T 1430
Bassoon	1932 SV**Tg**D**T**AL**P**GQ**S**SG**P**F**Y**S**P**R 1950
Bassoon	2120 HG**Sg**G**Sg**GG**P**DLVQ**Y**Q**P**QHG**P**GL**Sg**A**P**Q 2144
Bassoon	3213 **Sg**S**g**V**Sg**Q**Sg**P**A**P**Tg**Y**P**Sg**D**Sg**H**Y**T**Sg**L 3232
CREB coactivator CRTC2 (TORC2)	65 SH**Y**GG**Sg**L**P**NVNQIGCGLAEFQS**P**LHS**P** 91
CREB Coactivator CRTC2 (TORC2)	170 S**Sg**D**Sg**ALHTSVMN**P**N**P**QD**T**Y**P**G**P**T**P**P**S**VL**P****S** 199
Estrogen receptor beta	55 N**Y**SV**P****S****Sg**TGNLEGG**P**V 70
Microtubule-associated Protein 1B	2018 TTTKT**T**R**Sp**P**D**TSA**Y**CYE 2034
Neurofilament L	38 SA**Y**SS**Y**SA**P**V**Sg**S**g**S**g**L**Sg**VR 54
Neurofilament L	31 SG**Y****Sg**TAR 37
Neurofilament M	43 GS**P**S**g**T**g**V**Sg**S**g**S**g**Y**KR 55
Piccolo	2941 **T**TG**P**Y**P**E**Tg**R 2949
Piccolo	2949 QVISGIS**T****P**Q**Y****Sg**T**g**AR 2966
Ponsin	1189 **T****P**VD**Y**IDL**P****Y****Sg**S**g**S**g****P****S**R 1204
RNA-binding motif protein 14	275 AQ**P****Sg**V**Sg**LGA**P****Y**R 296
Vimentin	51 SL**Y**A**Sg****S****P**GGV 60
Prohibitin	101 **S**QL**P**RIFTSIGED**Y**ERVL**P****S**……NI**T****Y**L**P** 261 114 259

Note: Additional potential *O*-GlcNAc sites with proline at -1 or +3 positions are shown as bold letters (**S/T**).