**Supplementary Table 1 - Hypothetical Pseudo-dataset Input Example for phindPTMs Function**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Identifier** | **Protein\_ID** | **Peptide\_Seq** | **Total\_Sites** | **PTM\_Loc** | **PTM\_Score** |
| phos\_pep1 | Q13131 | tSCGSPNYAAPEVISGR | 1 | T1 | 99.87 |
| phos\_pep2 | P17252 | GAENFDKFFt | 1 | T10 | 123 |
| glyc\_pep1 | P98160 | SYLSDDEDMLADSISGDDLGsGDLGsGDFQMVYF | 2 | S21;  S26 | 44.2;  56.3 |
| glyc\_pep2 | P01583 | YEFILNDALnQSII | 1 | N10 | 20 |
| ubiq\_pep1 | P04637 | AHSSHLkSkKGQSTS | 2 | K7;  K9;  K10 | 89.78;  49.75;  49.75 |
| ubiq\_pep2 | P46527 | KRPATDDSSTQNK | 2 | K1;  K13 | 99.99;  92.24 |