**Supplementary File 1**

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| --- | --- | --- | --- |
| **Protein name** | **Locations** | **Predicted *O*-GlcNAcylated sites** | **Score** |
| DNMT1 (P26358) | 5 | -MPAR T APARV | 0.8089 |
| 158 | PSPRI T RKSTR | 0.9368 |
| 161 | RITRK S TRQTT | 0.7442 |
| 162 | ITRKS T RQTTI | 0.7014 |
| 165 | KSTRQ T TITSH | 0.7822 |
| 166 | STRQT T ITSHF | 0.7471 |
| 168 | RQTTI T SHFAK | 0.6403 |
| 534 | NKIET T VPPSG | 0.7764 |
| 616 | KDRGP T KATTT | 0.8524 |
| 801 | WFCAG T DTVLG | 0.5094 |
| 882 | ESPPK T QPTED | 0.9432 |
| 895 | FKFCV S CARLA | 0.6618 |
| 977 | HYRKY S DYIKG | 0.3536 |
| 1034 | KSTPA S YHADI | 0.7661 |
| 1076 | CVQVY S MGGPN | 0.499 |
| 1122 | KGKPK S QACEP | 0.7928 |

**Supplementary File 1.** Prediction of *O*-GlcNAcylated sites within DNMT1 using OGTSite.