## **Description of Additional Supplementary Files**

File Name: Supplementary Data 1

Description: List of precursor masses for specified histone modifications and their respective

processing parameters for PRM analysis.

File Name: Supplementary Data 2

Description: List of identified proteins of replicate 1 (Supplementary Data 2) and replicate 2 (Supplementary Data 3) of GFPPWWP2A mononucleosome IPs in label-free MS-based proteomics

after MaxQuant analysis.

File Name: Supplementary Data 3

Description: List of identified proteins of replicate 1 (Supplementary Data 2) and replicate 2 (Supplementary Data 3) of GFPPWWP2A mononucleosome IPs in label-free MS-based proteomics after MaxQuant analysis.