**Supplementary Figure 11. Protein/Gene offsets analysis. (A)** Histograms showing the distribution of the number of proteins with specific offsets between protein abundance and gene expression phases (time points of maximum protein abundance and gene expression) under long day conditions (16h light / 8h dark, LD, top, blue) and short day conditions (8h light / 16h dark, SD, bottom, red). Under LD protein/gene offsets present a unimodal distribution centered around 5h whereas under SD offsets follow a more uniform distribution. **(B)** Boxplots representing the global distribution of the correlations between protein abundance and gene expression profiles (white box) and shifted aligned profiles with coincident phases (grey). Medians are represented by central horizontal lines, upper and lower quartiles by boxes, minimum and maximum values by whisker ends. No correlation is observed between protein/gene profiles whereas positive correlations are apparent between the aligned protein and gene profiles. **(C)** Top, protein abundance (continuous blue line) and gene expression (dashed light blue line) profiles under LD conditions for *MA3 domain-containing translation Regulatory Factor* (*ostta05g02330*, *MRF*). Bottom, phase aligned protein abundance (dotted blue line) and gene expression (dashed light blue line) profiles. White rectangles represent photoperiods (light periods or days), blue and red filled rectangles correspond to skotoperiods (dark periods or nights). ZTN, Zeitgeber time N, marks the time point N hours after dawn (lights on, ZT0). Whereas the original protein abundance and gene expression profiles are negative correlated with a value of -0.34 between, a high positive correlation of 0.84 is observed between the phased aligned profiles. **(D)** Scatter plots where each dot stands for a protein, x-coordinates represent protein/gene offsets and y-coordinates different protein indexes or properties computed from their sequences such as amino acid composition, charge and hydrophobicity. No relation is apparent between any protein index and protein/gene offsets. **(E)** Median protein/gene offset for gene sets annotated with the same Gene Ontology (GO) term under LD conditions (top) and SD conditions (bottom). Different biological processes identified by specific GO terms present distinct short or long protein/gene offsets. **(F)** Treemaps summarizing the biological processes with shortest protein/gene offsets (top) and with longest protein/gene offsets (bottom). Semantically similar biological processes are grouped together into the same colored rectangles. The most representative biological processes are shown for each rectangle.