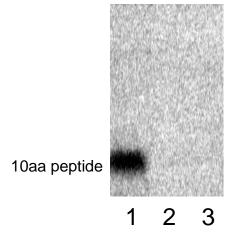
Supplemental Material

Supplemental Fig. 1. Modification of a decapeptide 50-GKGSFKYAWV-59 by ¹⁴C-glucosylation. Synthetic peptides acetyl-GKGSFKYAWV-NH₂ (*lane 1*) and acetyl-GKGAFKYAWV-NH₂ (*lane 2*) at a concentration of 10 µM were incubated with 28 nM of Lgt1 in a ¹⁴C-glucosylation mixture for 10 min at 37°C. Thereafter products of the reaction were investigated by 15% SDS-PAGE and autoradiography. *Lane 3* represents negative control without added substrates.

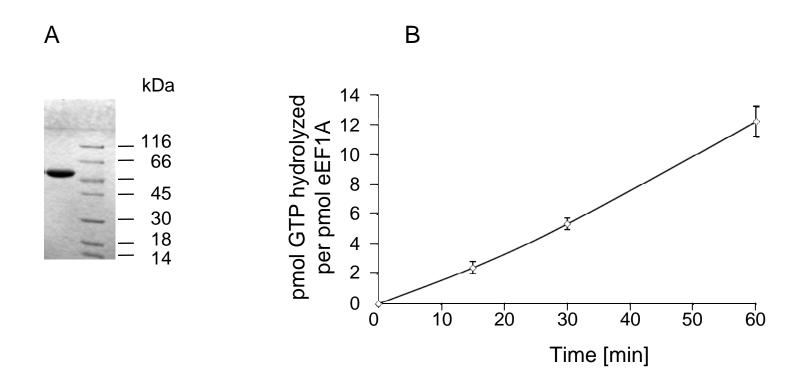
Supplemental Fig. 2. Characterization of purified yeast eEF1A. *A,* SDS-PAGE analysis of eEF1A (Coomassie staining, 1 µg per lane). *B,* GTPase activity of purified yeast eEF1A. Purification of elongation factor and determination of its GTPase activity were described in EXPERIMENTAL PROCEDURES. Data are presented as mean of at least 3 independent measurements with standard deviation.

Supplemental Fig. 3. Dynamic studies of glucosylation of different substrates by Lgt1. One μ M of each purified substrates was incubated with 70 nM Lgt1 and 10 μ M UDP-[14 C]glucose at 37°C for 3, 10 and 30 min. Representative glucosylation of eEF1A-derived decapeptide (a), Hbs1 (b), Hbs1-derived decapeptide (c); eEF1A-derived 25-mer peptide (d), G domain of eEF1A (e) and yeast eEF1A (f) at 3, 10 and 30 min are shown as an autoradiogram.

Supplemental Fig. 1



Supplemental Fig. 2



Supplemental Fig. 3

