

Description of Additional Supplementary Files

File Name: Supplementary Movie 1

Description: **Simulated movement in eIF2 from distinct domain orientations.** Related to Figure 2, simulated movement from half-map re-classifications of eIF2 α P/eIF2B complexes.

File Name: Supplementary Movie 2

Description: **Model for coupled GDP exchange and tRNA_i binding to form TC.** Movie related to model scheme shown in Figure 6. Shows eIF2 binding and eIF2B GEF activity. It combines the eIF2 α domain 3 movements shown in Figure 2 and Supplementary Movie 1 with the location of the GEF domain shown in Supplementary Figure 7. Initiator tRNA can bind to form TC while eIF2 is bound to eIF2B in an extended conformation, coupling nucleotide exchange and TC formation.