

Supplementary Figures for de la Parra et al.

Supplementary Figure 1

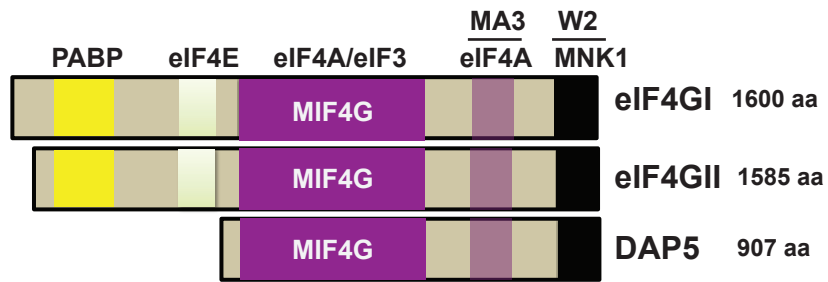
Supplementary Figure 2

Supplementary Figure 3

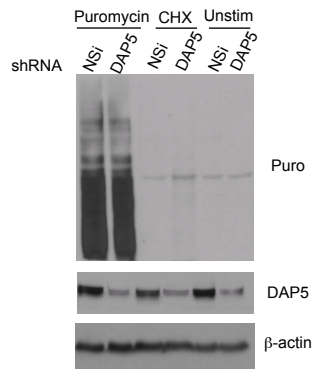
Supplementary Figure 4

Supplementary Figure 5

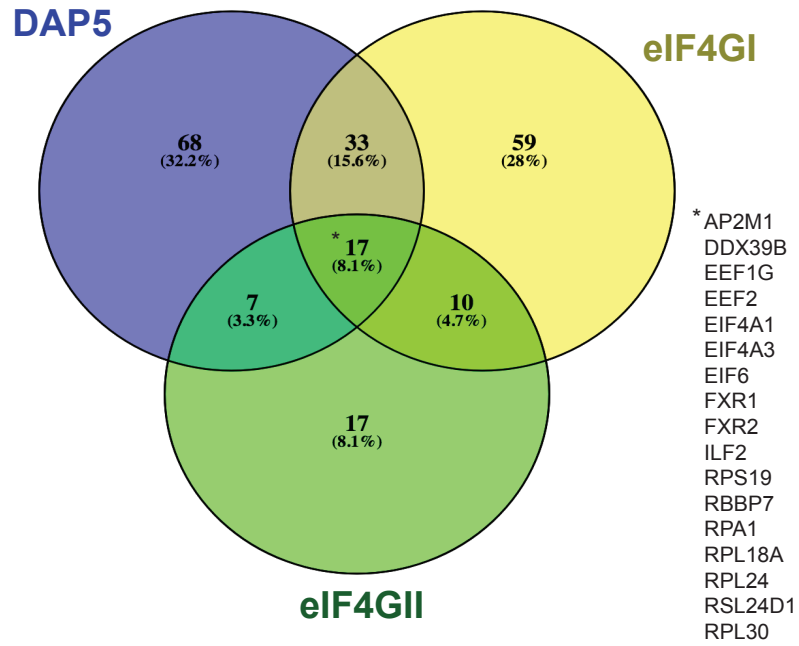
Supplementary Figure 6



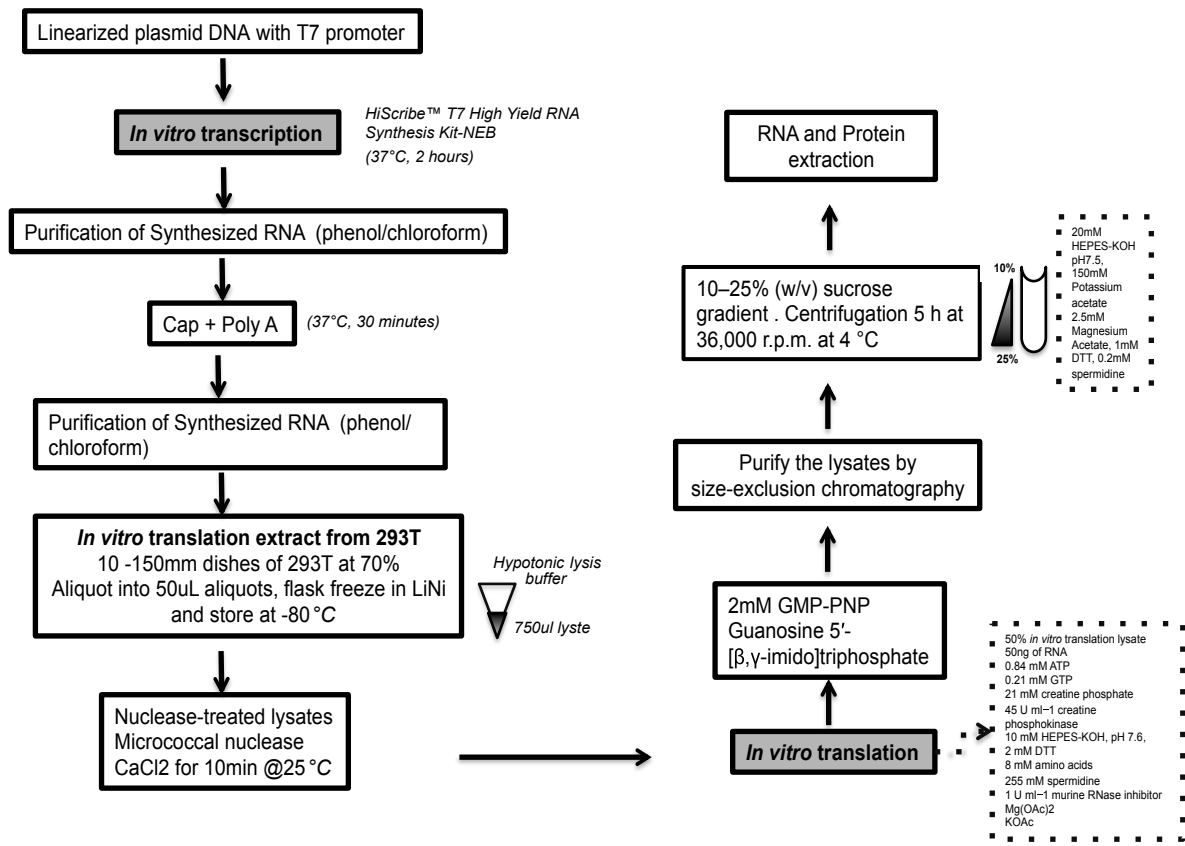
Supplementary Fig. 1 Domain structure of eIF4GI, eIF4GII and DAP5. The eIF4G family shares homology in the middle and C-terminal regions. The middle domain, the MIF4G domain, has binding sites for eIF4A1 and eIF3. The C-terminal domain contains a second eIF4A1 binding domain, MA3, whereas the W2 domain motif binds Mnk1, the eIF4E kinase. DAP5 lacks the N-terminal region found in eIF4GI and eIF4GII, and therefore cannot bind eIF4E or PABP.



Supplementary Fig. 2 Puromycin labeling of nascent polypeptides in MDA-MB231 cells without and with DAP5-silencing. Dox-inducible TRIPZ RFP shRNA lentivirus vectors were used to silence DAP5 or express non-silencing (NSi) RNA. Representative immunoblot shown from at least three independent experiments with anti-puromycin, anti-DAP5 or anti-actin antibodies. Cyclohexamide (CHX) and unstimulated (Unstim) control cells served as a negative control.

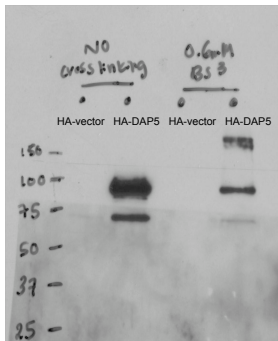


Supplementary Fig. 4 Comparison of proteins found in common or uniquely associated with eIF4GI, eIF4GII and/or DAP5. Results derived from mass spectrometry data showing proteins from the SAINT analysis. See also Supplementary Data 2 for source data used to develop the comparative data shown here. *, 17 proteins shared between eIF4GI, eIF4GII and DAP5.

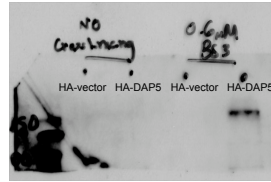


Supplementary Fig. 5 Flow chart outlining the preparation of in vitro 48S ribosome translation extracts. 293T cells were used for preparation of mRNA programmed cell free translation extracts with capped and polyadenylated mRNAs, followed by purification of 48S mRNA-40S ribosome initiation complexes.

Figure 3e

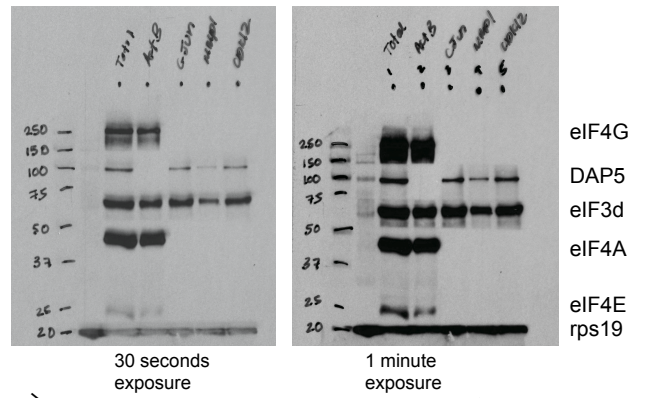


Membrane stripped and re-probed for eIF3d



DAP5
eIF3d

Figure 4c



30 seconds exposure

1 minute exposure

eIF4G
DAP5
eIF3d
eIF4A
eIF4E
rps19

Figure 5a

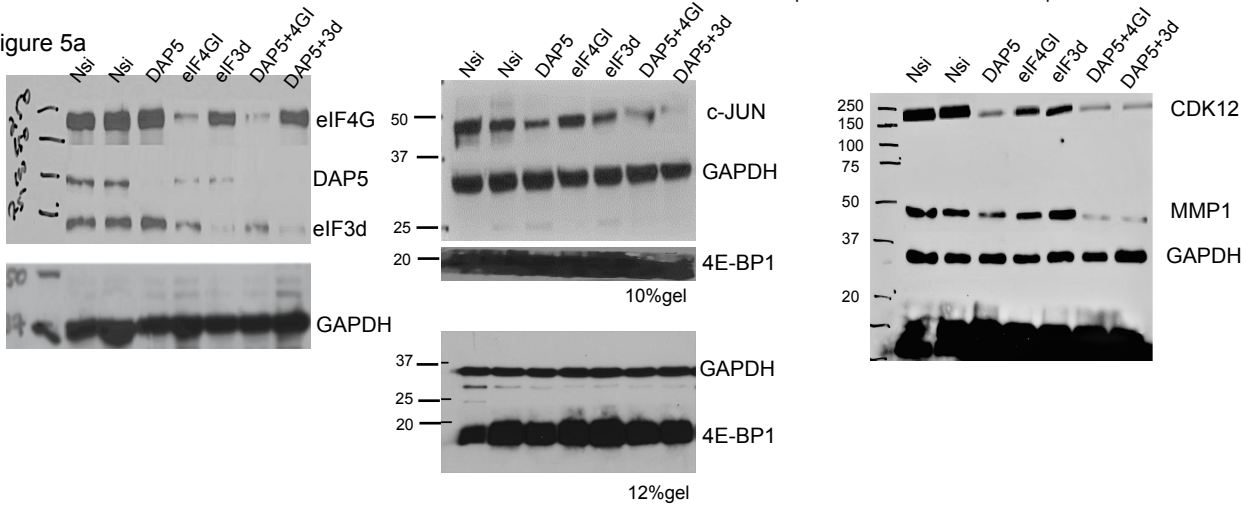
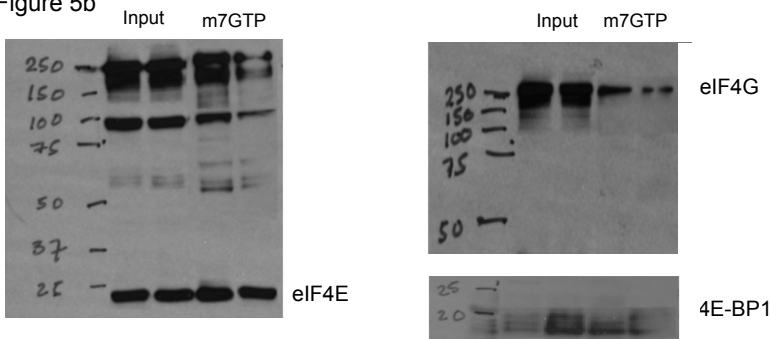


Figure 5b



Supplementary Fig. 6. Uncropped scans of immunoblots shown in Figures 3e, 4c, 5a and 5b.