



Supplementary fig.5: Aligement of 4E-BP proteins

The three *Homo sapiens* 4E-BPs, *Ciona intestinalis* 4E-BP, *Strongylocentrotus purpuratus* 4E-BP, *Danio rerio* 4E-BP3 like, *Drosophila melanogaster* Thor were aligned with Bio Edit (Hall, 1999). Accession numbers of human proteins are: 4E-BP1 (NP_004086), 4E-BP2 (Q13542), 4E-BP3 (NP_003723) on NCBI. The Accession number is NP_001077103 for *Strongylocentrotus purpuratus* (NCBI), NP_955977 for *Danio rerio* (NCBI), NP_477295 for *Drosophila melanogaster* (NCBI), 299279 for *Ciona intestinalis* (<http://genome.jgi-psf.org/Cioin2/>). Identical and conserved amino acid residues are on black and grey background, respectively. The common eIF4E binding motif indicated by YxxxxLΦ (where x is any amino acid and Φ is an hydrophobic residue), the RAIP motif and the TOS (TOR signalling) [29] site are denoted with a line above.