**Table S2 – Protein interactions as referenced in Figure 4.**The details of each interaction were gathered from studies using yeast (*Saccharomyces cerevisiae*), flies (*Drosophila melanogaster),* murine *(Mus musculus*) cell culture or human (*Homo sapiens)* cell culture.

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| --- | --- | --- |
| **Interaction (*Drosophila* gene orthologues in brackets)** | **Characterised in** | **References** |
| Insufficient AAs activate GCN2 (*GCN2)* | *S. cerevisiae D. melanogaster H. sapiens* cell culture | [1] Wek, Jackson and Hinnebusch, 1989 [2] Olsen *et al.*, 1998 [3] Harding *et al.*, 2000 |
| GCN2 (*GCN2)* activates eIF2α (*eIF2α)* | *S. cerevisiae*  *D. melanogaster* | [4] Dever *et al.*, 1992  [5] Malzer *et al.*, 2013 |
| eIF2α (*eIF2α)* activates ATF4 (*crc)* | *D. melanogaster* cell culture  *M. musculus* cell culture | [6] Kang *et al.*, 2017  [7] Vattem and Wek, 2004 |
| ATF4 (*crc)* activates REDD1 (*scyl*, *chrb*) | *M. musculus* cell culture  *D. melanogaster* | [8] Kosakamoto *et al.* 2022  [9] Whitney, Jefferson and Kimball, 2009  [10] Xu *et al.*, 2019 |
| REDD1 (*scyl*, *chrb*) inhibits mTORC1 (*Tor*, *raptor* + others) | *D. melanogaster*  *M. musculus* cell culture  *H. sapiens* cell culture | [11] Kosakamoto *et al.* 2022  [12] Reiling and Hafen, 2004  [13] Brugarolas *et al.*, 2003  [14] Corradetti, Inoki and Guan, 2005  [15] DeYoung *et al.*, 2008  [16] Garami *et al.*, 2003  [17] Tee *et al.*, 2003  [18] Li *et al.*, 2004)  [19] Sofer *et al.*, 2005 |
| mTORC1 (*Tor*, *raptor* + others) inhibits ATG1/ATG13 (*Atg1, Atg13)* complex formation | *S. cerevisiae D. melanogaster*  *M. musculus* cell culture  *H. sapiens* cell culture | [20] Kamada *et al.*, 2000  [21] Matsuura *et al.*, 1997  [22] Chang and Neufeld, 2009  [23] Ganley *et al.*, 2009  [24] Hosokawa *et al.*, 2009  [25] Jung *et al.*, 2009 |