### Table S1: antibodies used in this work

| Protein                                      | Used for | Manufacturer                  |
|----------------------------------------------|----------|-------------------------------|
| Actinin                                      | WB       | sc-17829, Santa Cruz          |
| Sestrin 2                                    | WB       | 10795-1-AP, Proteintech       |
| Phospho-S6 Ribosomal Protein                 | WB       | 2215, Cell Signaling          |
| S6 Ribosomal Protein                         | WB       | 2217, Cell Signaling          |
| Phospho-p70 S6 Kinase (Thr 389)              | WB       | 9205, Cell Signaling          |
| p70 S6 Kinase                                | WB       | 2708, Cell Signaling          |
| LC3A/B                                       | WB       | 4108, Cell Signaling          |
| LSD1                                         | ChIP, WB | ab17721, Abcam                |
| TFEB                                         | IF       | 4240, Cell Signaling          |
| H3Ac                                         | ChIP     | 06-599, Millipore             |
| H3K27me3                                     | ChIP     | 07-449, Millipore             |
| H3K4me2                                      | ChIP     | ab32356, Abcam                |
| H3K9me2                                      | ChIP     | ab1220, Abcam                 |
| LSD2                                         | WB       | Ab 193080, Abcam              |