**Supplementary Table 2** (Related to Figure 3B). Proteins modified by glycation adducts in senescent myoblasts

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Protein spot noa | Identified protein name | Swiss-Prot accession nob | Mascot scorec | Sequence coverage (%)d | No. of matched peptidese | No. of sequenced peptidesf | Theoretical protein mass (Da)g | Theoretical PIh | RMI ratioi |
| 1 | Caldesmon | CALD1 | 268 | 20 | 15 | 6 | 93250 | 5.63 | 2,89 |
| 2 | Caldesmon | CALD1 | 179 | 11 | 13 | 4 | 93250 | 5.63 | h |
| 3 | Gelsolin | GELS | 1120 | 37 | 36 | 13 | 85698 | 5.9 | 4,15 |
| 4 | Gelsolin | GELS | 904 | 33 | 34 | 9 | 85698 | 5.9 | 2,11 |
| 5 | Endoplasmin | ENPL | 1460 | 33 | 46 | 24 | 92469 | 4.76 | n |
| 6 | Prelamin-A/C | LMNA | 195 | 9 | 11 | 4 | 74139 | 6.57 | 4,21 |
| 7 | Prelamin-A/C | LMNA | 404 | 16 | 19 | 8 | 74139 | 6.57 | 1,3 |
| 8 | Prelamin-A/C | LMNA | 416 | 21 | 20 | 9 | 74139 | 6.57 | h |
| 9 | Stress-induced-phosphoprotein 1 | STIP1 | 95 | 11 | 11 | 3 | 62639 | 6.4 | h |
| 10 | Bifunctional purine biosynthesis protein PURH | PUR9 | 115 | 9 | 7 | 2 | 64616 | 6.27 | h |
| 11 | Prelamin-A/C | LMNA | 195 | 9 | 9 | 4 | 74139 | 6.57 | 2,34 |
| 12 | T-complex protein 1 subunit zeta | TCPZ | 566 | 31 | 26 | 10 | 58024 | 6.24 | h |
| 13 | Dihydropyrimidinase-related protein 2 | DPYSL2 | 455 | 35 | 24 | 7 | 62294 | 5.95 | 1,65 |
| 14 | T-complex protein 1 subunit gamma | TCPG | 249 | 25 | 18 | 6 | 60534 | 6.1 | 3,94 |
| 15 | Fascin | FSCN1 | 371 | 25 | 17 | 8 | 54530 | 6.84 | h |
| 16 | Retinal dehydrogenase 1 | AL1A1 | 606 | 32 | 20 | 8 | 54862 | 6.3 | h |
| 17 | Retinal dehydrogenase 1 | AL1A1 | 610 | 32 | 22 | 9 | 54862 | 6.3 | h |
| 18 | Desmin | DESM | 906 | 43 | 23 | 8 | 53536 | 5,21 | 1,8 |
| 19 | Vimentin | VIME | 1460 | 57 | 40 | 20 | 53652 | 5.06 | 4,59 |
| 20 | Alpha-enolase | ENOA | 522 | 25 | 23 | 7 | 47169 | 7.01 | 2,53 |
| 21 | Alpha-enolase | ENOA | 917 | 35 | 28 | 12 | 47169 | 7.01 | h |
| 22 | Fructose-bisphosphate aldolase A | ALDOA | 568 | 34 | 19 | 8 | 39420 | 8.3 | h |
| 23 | 26S protease regulatory subunit 10B | PRS10 | 145 | 16 | 8 | 3 | 44173 | 7.09 | 3,41 |
| 24 | Glyceraldehyde-3-phosphate dehydrogenase | GAPDH | 363 | 41 | 17 | 6 | 36053 | 8.57 | 3,18 |

Spots of interest were identified by MS as described in Experimental procedures. Protein spots no (a) refer to numbered spots on Fig 3B. For each spot, different parameters clarifying protein identification by MS are indicated [accession number (b), mascot score (c), % sequence coverage (d), no. of matched peptides(e), no. of sequenced peptides(f), theoretical protein mass (g) and theoretical PI(h)]. RMI ratio (i) represents the Relative Modification Index Ratio. h means that the RMI ratio is higher than 5, n mean that the modified protein was only detected on the senescent samples.