

Table S2. List of internal standards for the calibration of whole-cell proteomics

| Type | Name | Sequence ^a | Label | Calculated <i>m/z</i> |
|-------------|---------------|--|-----------------------------------|-----------------------|
| Gly-to-Leu | MADD_CAEEL_N | <u>L</u> NL <u>L</u> LEV <u>K</u> | L_C13N15 | 474.8140 |
| | MADD_CAEEL_C | LNL <u>L</u> LEV <u>K</u> | K_C13N15 | 475.3125 |
| | MED1_CAEEL | QPGEPPAGRGK <u>L</u> <u>K</u> | K_C13N15 | 552.9809 |
| | NDUS7_CAEEL | TALAVGTR <u>R</u> | R_C13N15 | 477.7898 |
| | NGLY1_CAEEL | ERGEL <u>L</u> ESG <u>P</u> <u>K</u> | K_C13N15 | 611.8298 |
| | PAFA_CAEEL | QV <u>L</u> CKD <u>L</u> | L_C13N15 | 413.2345 |
| | IFA2_CAEEL | FEEAQRL <u>R</u> | R_C13N15 | 529.7847 |
| | LE418_CAEEL | AFY <u>L</u> AVM <u>R</u> | R_C13N15 | 490.7670 |
| | RIM_CAEEL | RTDT <u>L</u> <u>K</u> | K_C13N15 | 371.2211 |
| | ACN1_CAEEL | ALEMIS <u>L</u> <u>K</u> | K_C13N15 | 456.7696 |
| | CADH3_CAEEL | RD <u>L</u> HINMAY <u>L</u> | L_C13N15 | 626.8329 |
| | CLAP1_CAEEL | <u>L</u> AE <u>L</u> NNTLIIS <u>I</u> <u>L</u> | L_C13N15 | 717.4383 |
| | CHITL_CAEEL | EDAATSVKVAN <u>L</u> <u>L</u> | L_C13N15 | 669.3731 |
| | SIR41_CAEEL_N | <u>R</u> SKDV <u>L</u> <u>L</u> | R_C13N15 | 419.2672 |
| | SIR41_CAEEL_C | RSKDV <u>L</u> <u>L</u> | L_C13N15 | 420.7628 |
| | NHR20_CAEEL | TPSMKV <u>I</u> <u>L</u> | L_C13N15 | 448.2736 |
| | PS11A_CAEEL | SPAS <u>L</u> DDDI <u>K</u> | K_C13N15 | 534.7688 |
| | SRRT_CAEEL | <u>L</u> LI <u>E</u> <u>K</u> | K_C13N15 | 312.2148 |
| | CLH_CAEEL | <u>T</u> LQ <u>I</u> <u>K</u> | K_C13N15 | 305.7046 |
| | Gly-to-Ser | DHTK1_CAEEL | <u>L</u> SEEAIL <u>S</u> <u>F</u> | L_C13N15 |
| U520_CAEEL | | SGIIQATE <u>L</u> <u>S</u> <u>R</u> | R_C13N15 | 592.8294 |
| HUTU_CAEEL | | AEKQVDS <u>L</u> <u>R</u> | R_C13N15 | 528.2899 |
| GALT9_CAEEL | | H <u>S</u> LI <u>R</u> | R_C13N15 | 318.1970 |
| DGK3_CAEEL | | MP <u>S</u> LFPM <u>K</u> | K_C13N15 | 479.7529 |
| SRB5_CAEEL | | <u>V</u> TSQEGAR | V_C13N15 | 427.2242 |
| SRE37_CAEEL | | FIS <u>S</u> LPI <u>R</u> | R_C13N15 | 528.3283 |

^a Amino acid residues at the Gly (GGG) codon are shown in red. Stable isotopically labeled amino acids are underlined.