**Table S2 Proteins identified in the reverse labeled lysates with "Heavy" wild-type and "Light"*mntC***

| Protein symbol | Gene names | Observations | Log2 ratio (Δ*mntC*/WT) | *z*-score | Log2 summed signal intensity |
|---|---|---|---|---|---|
| C5N6C1_STAA3 | pyk | 1311 | 0.82 | 2.50 | 71.26 |
| C5N3I0_STAA3 | nrdE | 731 | 2.14 | 4.36 | 67.52 |
| C5N4L2_STAA3 | isdB | 602 | 1.61 | 2.37 | 64.49 |
| C5N2N2_STAA3 | atpD | 414 | -1.20 | -2.17 | 67.81 |
| C5N193_STAA3 | pflB | 343 | 2.49 | 3.01 | 63.23 |
| C5N0T1_STAA3 | serS | 272 | -2.07 | -3.75 | 66.28 |
| C5N4F5_STAA3 | purH | 262 | 2.78 | 3.12 | 60.81 |
| C5N018_STAA3 | SAUSA300_2412 | 182 | 1.41 | 2.08 | 64.31 |
| C5N3I1_STAA3 | nrdF | 159 | 2.88 | 4.36 | 65.28 |
| C5N6D3_STAA3 | SAUSA300_1656 | 136 | -1.39 | -2.08 | 65.86 |
| C5N019_STAA3 | SAUSA300_2413 | 86 | 4.99 | 3.72 | 56.51 |
| C5N584_STAA3 | SAUSA300_1226 | 80 | -2.39 | -2.57 | 59.33 |
| C5N592_STAA3 | rpsN | 55 | -1.77 | -2.03 | 60.30 |
| C5N3F4_STAA3 | SAUSA300_0693 | 52 | -1.94 | -2.32 | 61.61 |
| C5N101_STAA3 | SAUSA300_0129 | 47 | -1.82 | -2.16 | 63.36 |
| C5N0Z8_STAA3 | SAUSA300_0126 | 41 | 3.38 | 2.35 | 55.67 |
| C5N1L3_STAA3 | SAUSA300_0328 | 36 | -1.72 | -2.01 | 60.49 |
| C5N3L7_STAA3 | SAUSA300_0748 | 36 | 6.32 | 7.53 | 61.29 |
| C5N6S7_STAA3 | SAUSA300_1797 | 36 | 5.37 | 5.38 | 58.85 |
| C5N425_STAA3 | SAUSA300_0848 | 34 | 3.99 | 2.36 | 53.81 |
| C5N1B0_STAA3 | ldh | 33 | 2.52 | 2.33 | 58.53 |
| C5N585_STAA3 | thrC | 33 | -2.30 | -2.20 | 58.46 |
| C5N3S1_STAA3 | SAUSA300_0798 | 32 | -3.61 | -2.63 | 55.40 |
| C5N403_STAA3 | SAUSA300_0828 | 17 | -3.38 | -2.48 | 55.99 |
| C5N694_STAA3 | hemC | 15 | -2.63 | -2.05 | 56.55 |
| C5MZ66_STAA3 | SAUSA300_2161 | 14 | -4.82 | -2.97 | 54.48 |
| C5N1G2_STAA3 | essC | 13 | 4.27 | 2.62 | 53.96 |
| C5N6B7_STAA3 | SAUSA300_1639 | 9 | 5.95 | 2.96 | 52.61 |
| C5MYM6_STAA3 | SAUSA300_1875 | 9 | 5.09 | 2.14 | 50.76 |
| C5N3Y2_STAA3 | SAUSA300_1388 | 8 | -5.03 | -2.45 | 52.37 |
| C5N6F3_STAA3 | SAUSA300_1677 | 8 | 6.13 | 2.27 | 49.09 |
| C5N132_STAA3 | SAUSA300_0158 | 7 | 4.68 | 2.30 | 52.48 |
| C5N0T0_STAA3 | hutH | 5 | -8.06 | -3.15 | 50.17 |
| C5N467_STAA3 | SAUSA300_0888 | 5 | -4.97 | -2.50 | 52.71 |
| C5MZ94_STAA3 | SAUSA300_2148 | 5 | -6.58 | -2.93 | 51.45 |
| C5MZC1_STAA3 | secY | 4 | 5.55 | 2.57 | 51.99 |
| C5MZ45_STAA3 | ilvD | 3 | -6.98 | -2.27 | 46.91 |
| C5MYR1_STAA3 | pcrB | 3 | -8.22 | -2.50 | 45.31 |
| C5N493_STAA3 | SAUSA300_0915 | 3 | 7.90 | 2.86 | 48.57 |
| C5MYT1_STAA3 | SAUSA300_1908 | 3 | 6.30 | 2.29 | 48.63 |
| C5N2L9_STAA3 | SAUSA300_2070 | 3 | -5.36 | -2.98 | 53.37 |
| C5N0A0_STAA3 | feoB | 2 | -9.88 | -3.09 | 46.33 |
| C5N258_STAA3 | SAUSA300_2359 | 2 | 7.77 | 2.87 | 49.06 |