## Supplementary Table 3

Supplementary Table 3: The detailed list of potential interacting proteins detected by OTULIN alone

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Name | Z-Score(LUBAC) | Z-Score(LUBAC) | IMean\_Ratio(LUBAC-BSA) | Z-Score(OTULIN) | Z-Score(OTULIN) | IMean\_Ratio(OTULIN-BSA) |
| TBCE | 2.090  | 2.541  | 16.361  | 5.104 | 4.306 | 41.28983 |
| CRIP2 | 1.807  | 1.890  | 26.538  | 3.753 | 3.511 | 64.5069 |
| MRPS11 | 2.568  | 2.173  | 31.186  | 3.704 | 3.646 | 61.19845 |
| NOSIP | 1.190  | 1.355  | 23.298  | 4.297 | 3.447 | 83.31543 |
| SNX3 | 2.470  | 2.625  | 26.909  | 5.243 | 4.966 | 67.19324 |
| EFHC1 | 1.812  | 1.432  | 18.856  | 3.512 | 3.529 | 50.02285 |
| ZMAT4 | 1.494  | 1.595  | 29.990  | 3.292 | 3.258 | 77.74044 |
| SSX3 | 2.373  | 1.470  | 16.041  | 4.898 | 3.728 | 44.18579 |
| HNRNPK | 2.436  | 2.536  | 40.712  | 4.412 | 4.467 | 91.17258 |
| DPH2 | -0.081  | -0.016  | 6.061  | 4.565 | 4.831 | 226.3788 |
| LYPLA2 | 1.377  | 1.350  | 13.887  | 3.329 | 3.425 | 41.24333 |
| PDZD7 | 1.367  | 1.318  | 33.901  | 3.337 | 3.56 | 104.0454 |
| GUK1 | 1.400  | 1.428  | 12.439  | 4.086 | 3.575 | 40.22902 |
| CPTP\_frag | 2.881  | 2.723  | 16.576  | 5.043 | 3.866 | 33.34478 |
| GAGE2D | 2.826  | 2.536  | 15.362  | 3.679 | 4.015 | 28.08479 |
| GMDS | 2.109  | 2.229  | 11.118  | 3.639 | 3.606 | 23.34626 |
| CBR3 | 2.163  | 2.400  | 16.531  | 4.069 | 4.018 | 36.71 |
| DCXR | 2.907  | 2.586  | 23.328  | 3.466 | 3.279 | 36.93381 |
| TRMT6 | 2.892  | 2.828  | 35.526  | 3.501 | 3.402 | 55.34563 |
| GALK1 | 1.271  | 1.255  | 12.982  | 3.056 | 3.221 | 38.51007 |
| SNX8 | 2.767  | 2.667  | 14.943  | 3.235 | 3.218 | 22.95231 |
| C11orf16 | 1.998  | 2.050  | 15.018  | 3.397 | 3.285 | 31.1619 |
| BIN3 | 1.832  | 1.562  | 10.092  | 4.153 | 4.205 | 30.15818 |
| ZFYVE19 | 1.731  | 1.793  | 31.337  | 3.181 | 3.449 | 73.09924 |
| SOCS3 | 2.280  | 2.119  | 16.755  | 3.177 | 3.354 | 31.58316 |
| DCX | 2.566  | 2.181  | 42.998  | 3.893 | 4.16 | 91.73279 |
| PKM’ | 2.932  | 2.903  | 27.324  | 4.951 | 4.065 | 53.54295 |
| AURKA | 2.697  | 2.607  | 52.084  | 3.785 | 3.47 | 91.09775 |
| F7 | 2.612  | 2.940  | 18.032  | 4.264 | 4.276 | 35.1705 |
| MARVELD2 | 1.778  | 1.850  | 16.371  | 3.307 | 3.41 | 37.67421 |
| MTMR2 | 2.320  | 2.334  | 25.349  | 3.559 | 3.133 | 46.41047 |
| NDUFAF2 | 1.981  | 1.911  | 14.412  | 3.942 | 3.989 | 36.29248 |
| GLRX5 | 2.304  | 1.766  | 11.601  | 4.97 | 4.29 | 32.43596 |
| TAF9 | 2.411  | 2.724  | 24.096  | 3.304 | 3.39 | 40.32963 |
| ADGRE1 | 2.837  | 2.478  | 33.085  | 4.089 | 3.766 | 62.16248 |
| MMP19 | 2.366  | 2.130  | 40.996  | 3.114 | 3.184 | 73.28745 |
| HSF1 | 2.793  | 2.506  | 19.403  | 3.747 | 3.879 | 35.56268 |
| ANKRD16 | 1.570  | 1.929  | 15.444  | 3.211 | 3.161 | 34.96605 |
| BOD1 | 1.273  | 1.751  | 10.148  | 3.314 | 3.336 | 27.17052 |
| TPH1 | 2.556  | 2.181  | 13.665  | 3.139 | 3.199 | 23.42523 |
| IMPDH2 | 2.423  | 2.546  | 16.566  | 3.525 | 3.018 | 27.98067 |
| GALE | 2.165  | 2.093  | 21.522  | 4.702 | 4.469 | 57.24099 |
| ANKRD10 | 2.832  | 2.315  | 42.371  | 3.813 | 3.076 | 72.63544 |
| HAO1 | 1.988  | 1.962  | 26.921  | 3.762 | 3.505 | 61.70111 |
| AKR7A3 | 2.667  | 2.635  | 45.130  | 3.191 | 3.007 | 68.34118 |
| CTF1 | 2.617  | 2.563  | 35.149  | 3.052 | 3.224 | 55.00809 |
| PSAT1 | 2.949  | 2.857  | 19.589  | 3.781 | 3.743 | 32.58813 |
| C4BPB | 2.375  | 2.111  | 31.097  | 3.383 | 3.488 | 60.32013 |
| MEF2B | 2.908  | 2.524  | 34.541  | 3.865 | 3.188 | 57.57645 |
| SNTA1 | 0.361  | 0.386  | 7.488  | 8.787 | 8.734 | 146.346 |
| ZNF830 | 2.302  | 2.062  | 29.173  | 4.48 | 3.7 | 68.17284 |
| RHPN1 | 1.744  | 1.709  | 16.543  | 7.707 | 7.937 | 88.24871 |
| CTNS | 1.629  | 1.818  | 20.424  | 3.345 | 3.365 | 49.13466 |
| RAB6B | 1.963  | 2.160  | 17.694  | 3.42 | 3.516 | 37.37495 |
| GARS | 2.201  | 2.263  | 25.590  | 3.296 | 3.063 | 46.45093 |
| TTC9B | 2.567  | 2.133  | 36.481  | 3.89 | 3.171 | 69.54189 |
| GANAB | 0.421  | 0.468  | 10.443  | 3.213 | 3.003 | 68.55277 |
| PKM | 2.695  | 2.444  | 27.324  | 4.697 | 4.079 | 58.70935 |
| PHGDH | 2.689  | 2.651  | 16.156  | 4.244 | 4.728 | 34.20765 |
| SYNJ2BP | 0.458  | 0.573  | 10.135  | 8.48 | 7.753 | 148.4121 |
| RMI2 | 1.376  | 2.035  | 15.612  | 3.346 | 3.227 | 37.20391 |
| ABHD5 | 2.331  | 1.866  | 14.537  | 4.769 | 4.336 | 38.90189 |
| COL4A3 | 2.211  | 1.671  | 30.012  | 4.013 | 3.294 | 70.21165 |
| FANK1 | 1.551  | 1.400  | 21.075  | 3.63 | 3.156 | 58.73483 |
| GAGE10 | 1.183  | 1.016  | 6.554  | 4.646 | 3.743 | 28.55486 |
| TCP11L1 | 2.195  | 2.295  | 15.690  | 3.557 | 3.78 | 32.30248 |
| ECHDC1 | 1.883  | 1.712  | 9.459  | 3.302 | 3.394 | 21.87535 |
| MARK4 | 1.850  | 1.627  | 16.012  | 4.839 | 4.212 | 50.46023 |
| PUS3 | 2.543  | 1.905  | 16.700  | 3.412 | 3.028 | 30.76268 |
| XAGE2 | 2.828  | 2.173  | 21.716  | 8.749 | 7.29 | 84.88592 |
| TGIF2LY | 1.484  | 1.376  | 16.339  | 4.123 | 3.379 | 51.31344 |
| EXOC7 | 2.932  | 2.263  | 21.175  | 4.604 | 3.596 | 42.2893 |
| SHANK2 | 2.230  | 2.008  | 33.089  | 9.586 | 8.715 | 170.8918 |