**S2 Table. Primary regression model for the HEK293 cell line.**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Feature** | **Correlation coefficient, Ro-p** | **Increment of correlation coefficient** | **Regression coefficient** | **p-value** |
| Abundance [-100, 0] | 0.472 | 0.472 | -0.957 | 1.035 × 10-206 |
| MLL [101, 500] | 0.506 | 0.506 | 0.244 | < 1.0 × 10-300 |
| Sp2 [-100, 0] | 0.530 | 0.530 | 0.178 | < 1.0 × 10-300 |
| ELK4 [-100, 0] | 0.548 | 0.548 | 0.344 | < 1.0 × 10-300 |
| YY2 [1, 100] | 0.562 | 0.562 | 0.428 | < 1.0 × 10-300 |
| Abundance [-500, -201] | 0.573 | 0.573 | 0.912 | < 1.0 × 10-300 |
| ZSCAN22 [-100, 0] | 0.584 | 0.584 | 0.204 | < 1.0 × 10-300 |
| ZNF574 [-100, 0] | 0.590 | 0.590 | 0.207 | < 1.0 × 10-300 |
| ZBTB26 [101, 500] | 0.596 | 0.596 | 0.110 | 6.343 × 10-209 |
| KLF15 [-100, 0] | 0.601 | 0.601 | 0.153 | 1.817 × 10-244 |
| Sp3 [-200, -101] | 0.605 | 0.605 | 0.149 | 4.696 × 10-296 |
| ZNF518A [-100, 0] | 0.608 | 0.608 | 0.370 | < 1.0 × 10-300 |
| ZNF224 [101, 500] | 0.611 | 0.611 | 0.154 | 1.179 × 10-200 |
| MLL [-100, 0] | 0.614 | 0.614 | -0.235 | 9.480 × 10-243 |
| ZFP161 [-100, 0] | 0.616 | 0.616 | 0.143 | 1.171 × 10-218 |
| ZNF76 [-100, 0] | 0.619 | 0.619 | 0.156 | 4.718 × 10-192 |
| YY1 [1, 100] | 0.621 | 0.621 | 0.107 | < 1.0 × 10-300 |
| KLF12 [-100, 0] | 0.623 | 0.623 | 0.158 | 4.420 × 10-167 |
| ZXDB [101, 500] | 0.624 | 0.624 | 0.113 | 1.192 × 10-178 |
| ZNF384 [-100, 0] | 0.626 | 0.626 | 0.172 | 1.692 × 10-241 |