**S5 Table. Comparison of key kinetic parameters of influenza A virus replication in parental A549 cells and A549 cells overexpressing selected host cell factors (SGOs).**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Parameter →** |  |  |  |  |  |  |
| **Description →** | Nuclear vRNP import | vRNA synthesis | cRNA synthesis | mRNA synthesis | Binding of M1 to nuclear vRNPs | Virus release |
| **Unit →** |  |  |  |  |  |  |
| **Gene name ↓** | Parameter values **↓** |
| **A549 cells** | 0.296 | 100.93 | 1.53 | 3.06 x 104 | 1.82 x 10-6 | 1.10 x 10-3 |
| **control** | 0.281 | 93.66 | 1.48 | 3.62 x 104 | 2.14 x 10-6 | 0.98 x 10-3 |
| **CEACAM6\*** | 0.199 | 142.56 | 1.65 | 2.34 x 104 | 1.73 x 10-6 | 2.20 x 10-3 |
| **FANCG** | 0.258 | 137.45 | 0.88 | 1.91 x 104 | 1.81 x 10-6 | 2.60 x 10-3 |
| **NXF1** | 0.209 | 151.89 | 1.48 | 1.97 x 104 | 1.34 x 10-6 | 3.10 x 10-3 |
| **PLD2** | 0.287 | 156.26 | 0.80 | 2.15 x 104 | 1.54 x 10-6 | 1.70 x 10-3 |
| **XAB2** | 0.295 | 95.07 | 1.10 | 2.71 x 104 | 1.58 x 10-6 | 1.20 x 10-3 |

\*Name of the host cell gene that was overexpressed in the corresponding SGO.