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**Supplementary Data**

**ASFV transcription reporter screening system identifies ailanthone as a broad antiviral compound**

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Table S1 The sequence of si-RNA for p23.

|  |  |  |
| --- | --- | --- |
| **Sense** | **Antisense** | **Species** |
| AGCUUAAUUGGCUUAGUGUTT | ACACUAAGCCAAUUAAGCUTT | Homo sapiens |
| GCUUACAUUCAGUUGUCUUTT | AAGACAACUGAAUGUAAGCTT | Sus scrofa |

Table S2 Primer sequence for RT-qPCR.

|  |  |  |
| --- | --- | --- |
| **Target** | **Sequence (5'****–3')** | **Orientation** |
| ASFV-B646L | GCGCTCTGGATTAAGTTGCG | Forward |
| ASFV-B646L | ATATTGCGTCTACTGGGGCG | Reverse |
| ZIKA-NS5 | GGTCAGCGTCCTCTCTAATAAACG | Forward |
| ZIKA-NS5 | GCACCCTAGTGTCCACTTTTTCC | Reverse |
| RVFV-M | CTAGCCGTTTCACAAACTGGG | Forward |
| RVFV-M | CAATTGCATACCCTTTGCCTGGGC | Reverse |
| Human-GAPDH | CGGAGTCAACGGATTTGGTCGTAT | Forward |
| Human-GAPDH | AGCCTTCTCCATGGTGGTGAAGAC | Reverse |
| Monkey-GAPDH | CGAGATCCCTCCAAAATCAAG | Forward |
| Monkey-GAPDH | TGCAAATGAGCCCCAGCCTTC | Reverse |
| Swine-GAPDH | CCTTCCGTGTCCCTACTGCCAAC | Forward |
| Swine-GAPDH | GACGCCTGCTTCACCACCTTCT | Reverse |
| Firefly Luciferase | ATGGAAGACGCCAAAAACATA | Forward |
| Firefly Luciferase | CGTTTCATAGCTTCTGCCAAC | Reverse |
| ASFV-D205R | TAACGCGGAGACGCTGAATC | Forward |
| ASFV-D205R | CGCTGCTCGACGATTATATC | Reverse |
| ASFV-EP1242L | ATGTAGGAGATGCAGCCATC | Forward |
| ASFV-EP1242L | ATTTGTGCTGGATGACCGAT | Reverse |
| ASFV-C147L | CCTGGGGTTCCATATTTCAA | Forward |
| ASFV-C147L | AGCAGTCCTATTGATATAGC | Reverse |
| ASFV-CP80R | GTGTTTTACCTGTGGGTTTC | Forward |
| ASFV-CP80R | TGGGATATTTTGCGGCAATG | Reverse |
| ASFV-NP1450L | ATAAGGGTAGGCGCGGCAAT | Forward |
| ASFV-NP1450L | GCAAGAGAGCCTTCCAACGT | Reverse |
| ASFV-H359L | CTTCTTGTGAGGCCTTATGA | Forward |
| ASFV-H359L | ACCCATACCATCGGAAATCT | Reverse |
| ASFV-C315R | CAGCCATCCTTGCAGAAAGA | Forward |
| ASFV-C315R | TGGCACCCACGATCTTTAGA | Reverse |
| P23 | GCCTGCTTCTGCAAAGTGGT | Forward |
| P23 | GTTAACCTTGGCCATGACTGG | Reverse |
| 3.5kb-HBV | GAGTGTGGATTCGCACTCC | Forward |
| 3.5kb-HBV | GAGGCGAGGGAGTTCTTCT | Reverse |