



Supplementary Materials

Table S1. List of primers for RT-qPCR analysis.

| Reference | Gene | Forward Primer | Reverse Primer |
|-------------|--------------|----------------------|-----------------------|
| NM_002046.5 | GAPDH | GGGAGCCAAAAGGGTCATCA | TGATGGCATGGACTGTGGTC |
| NM_000576.2 | IL-1 β | TTCGACACATGGGATAACGA | TCTTTTCAACACGCAGGACAG |
| NM_000600.3 | IL-6 | AAAGCTGCGCAGAATGAGAT | AAAGAGGCACTGGCAGAAAA |
| NM_000454.4 | SOD1 | GAAGGTGTGGGAAGCATT | ACATTGCCCAAGTCTCCAAC |

Table S2. Amino-acid residues at positions NS1-272 and NS1-324 among DENV-2 strains

| Place of isolation | Year of isolation | NS1-272 | NS1-324 | Genbank accession number |
|--------------------|-------------------|---------|---------|--------------------------|
| Reunion island | 2018 | K | K | MN27404 |
| Malaysia | 2015 | K | K | KY923048 |
| Thailand | 1997 | K | R | U87411 |
| Pakistan | 2014 | K | R | KF360005 |
| Kenya | 2017 | K | R | MG779195 |
| United-States | 2016 | K | R | KX702404 |
| Venezuela | 2016 | K | R | MH215277 |
| Tanzania | 2014 | R | R | MG189962 |
| China | 2011 | R | R | JX470186 |

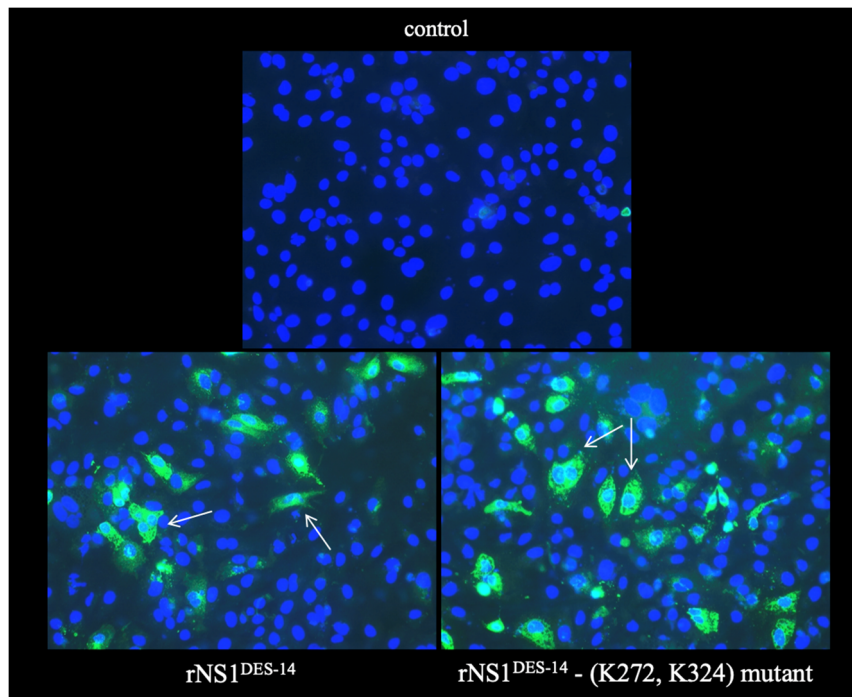


Figure S1. Expression of recombinant DES-14 NS1 proteins in Huh7 cells. Huh7 cells were transfected 24h with pcDNA3 plasmids expressing FLAG-tagged DES-14 rNS1 protein or its mutant or mock-transfected (control). Indirect immunofluorescence assays were performed as previously described [8]. Anti-FLAG antibody (green) served as primary antibody and goat anti-mouse IgG AlexaFluor 488 as secondary antibody [8]. The arrows indicate the NS1-positive cells. The nuclei were stained with DAPI (blue). A Nikon Eclipse E2000-U microscope was used for visualization of the fluorescence. A magnification of x200 was used throughout.