

# Supplementary Material

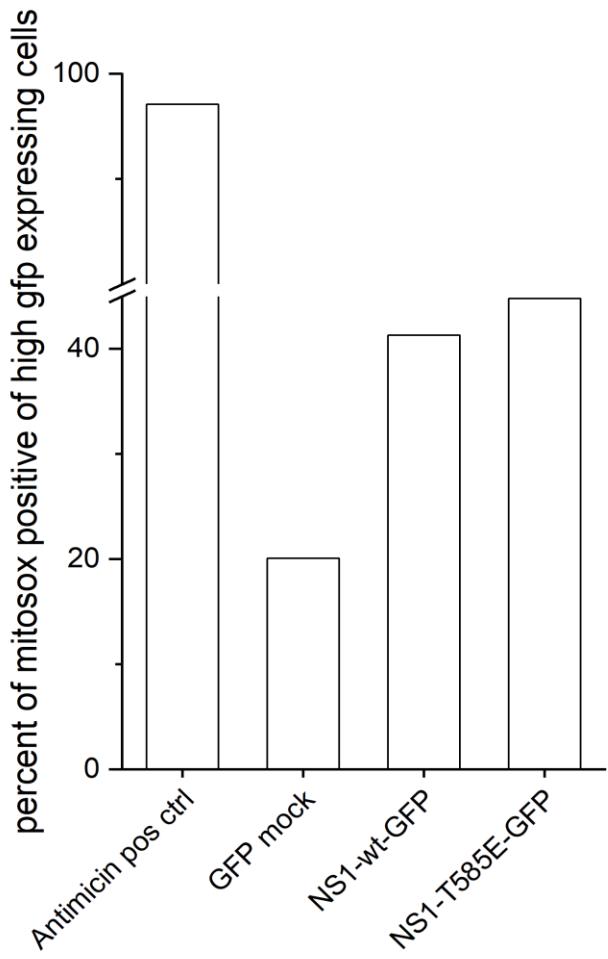
**Table S1: List of PCR primers. Mutated amino acid codons are marked in bold.**

#	Plasmid	Primer sequence
p1	BamHI-NS1-fwd	ATTGGATCCCGCGATGGCTGGAAACGCTTACTCC
p2	NotI-NS1-rev	TATTAATGCAGGCCGCTTAGTCCAAGGTAGCTCCTCG
p3	BamHI-NS1-rev	AATGGATCCCGCGTCCAAGGTAGCTCCTCG
p4	AgeI-NS1-fwd	AGCACCGGTGACATGGCTGGAAACGCTTACTCC
p5	AgeI-NS1-rev2	AATAACCGGTTGTCCAAGGTAGCTCCTCG
p6	NS1-K85Q-fwd	AGCGCAGTGGATGACATGACCAAA <b>CAG</b> CAAGTATTATT
p7	NS1-K85Q-rev	AATAAATACTTGCT <b>GTTGGTCATGTCATCCACTGCGCT</b>
p8	NS1-K257Q-fwd	CTGTATACTGATGAGATG <b>CAACCAGAACGGTCGAGACC</b>
p9	NS1-K257Q-rev	TCTCGACC <b>GTTCTGGTTGCATCTCATCAGTATAACAG</b>
p10	NS1-S283E-fwd	CAA <b>ACTAGAAAGGAGGTCGAGATTAAAACCACACTCAAA</b>
p11	NS1-S283E-rev	TTTGAGTGTGGTTTAAT <b>CTCGACCTCCTTCTAGTTG</b>
p12	NS1-T435E-fwd	TTTCCATTAA <b>ATGACTGTGAGAACAAAAACTTGATTGG</b>
p13	NS1-T435E-rev	CCAA <b>ATCAAGTTTGTTCTCACAGTCATTAAATGGAAA</b>
p14	NS1-S473E-fwd	GAT <b>CAAAAAGGAAAAGGCGAGAACAGATTGAACCAACAC</b>
P15	NS1-S473E-rev	GTGTTGGTTCAAT <b>CTGTTCTCGCCTTCCCTTTGATC</b>
p16	NS1-T585A-fwd	CGCTCACCAT <b>CTCTGGCTCCGAGAAGTACGCCTCTCAGC</b>

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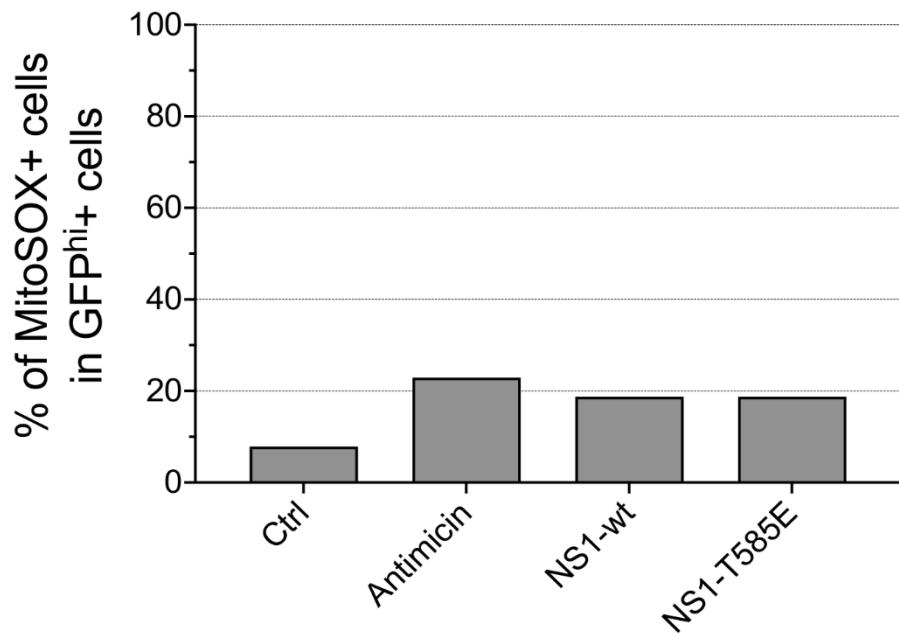
p17	NS1-T585A-rev	GCTGAGAGGCCGTACTTCTCGG <b>A</b> GCCAGAGATGGTGAGC
p18	NS1-T585E-fwd	CTCACCATCT <b>GGAG</b> CCGAGAAGTACGCCT
p19	NS1-T585E-rev	AGGCGTACTTCTCGG <b>CT</b> CCAGAGATGGTGAG
p20	NS1-d114-rev	CAGCCTCCCCAGTGTGTTGGCTCGGAGTCAGAGATGGTGA
p21	NS1-d114-fwd	TCACCATCT <b>GACT</b> CCGAGCCAAAACACTGGGGAGGCTG
p22	AgeI-ATG-BioID2-fwd	ATACCAACC <b>GGT</b> GAC <b>ATG</b> TCAAGAAC <b>CTG</b> ATCTGGCTGA
p23	HindIII-stop-HA-rev	TATA <b>CGTAAG</b> CTTCTAT <b>CGTAAT</b> CCGGTACATCGT

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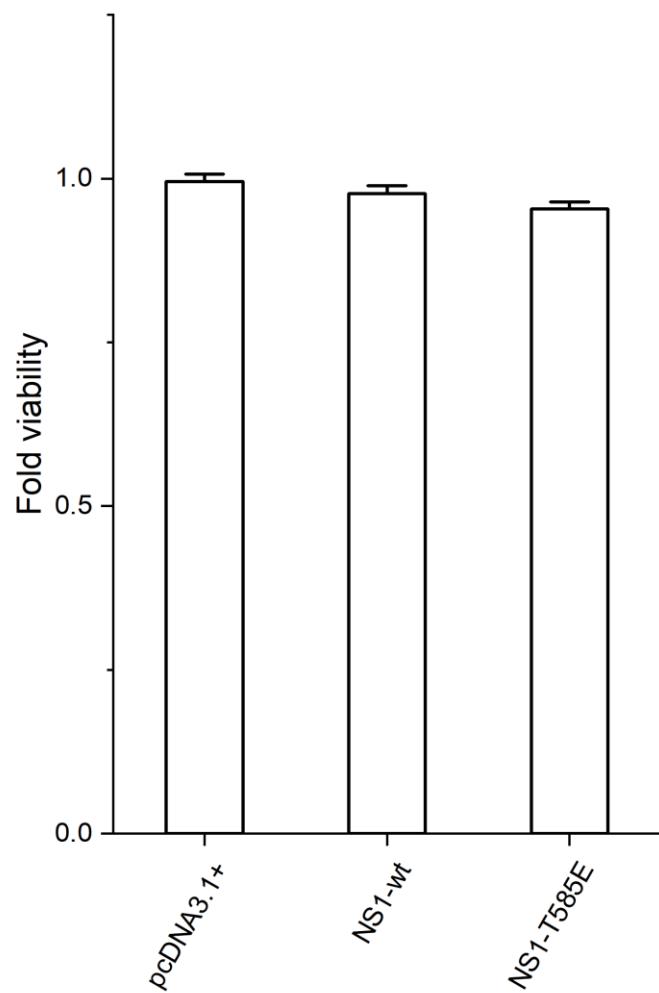


**Figure S1: Determination of reactive oxygen species (ROS) production.**  
Intracellular ROS levels were determined in responder Hep3B cells using the MitoSox assay (ThermoFischer) 72h post transfection. Cells were transfected with NS1-wt GFP or NS1-T585E GFP. Antimycin A treated cells were used as a positive control. GFP expressing cells were used as a negative control. >1400 high GFP expressing cells per group were counted.

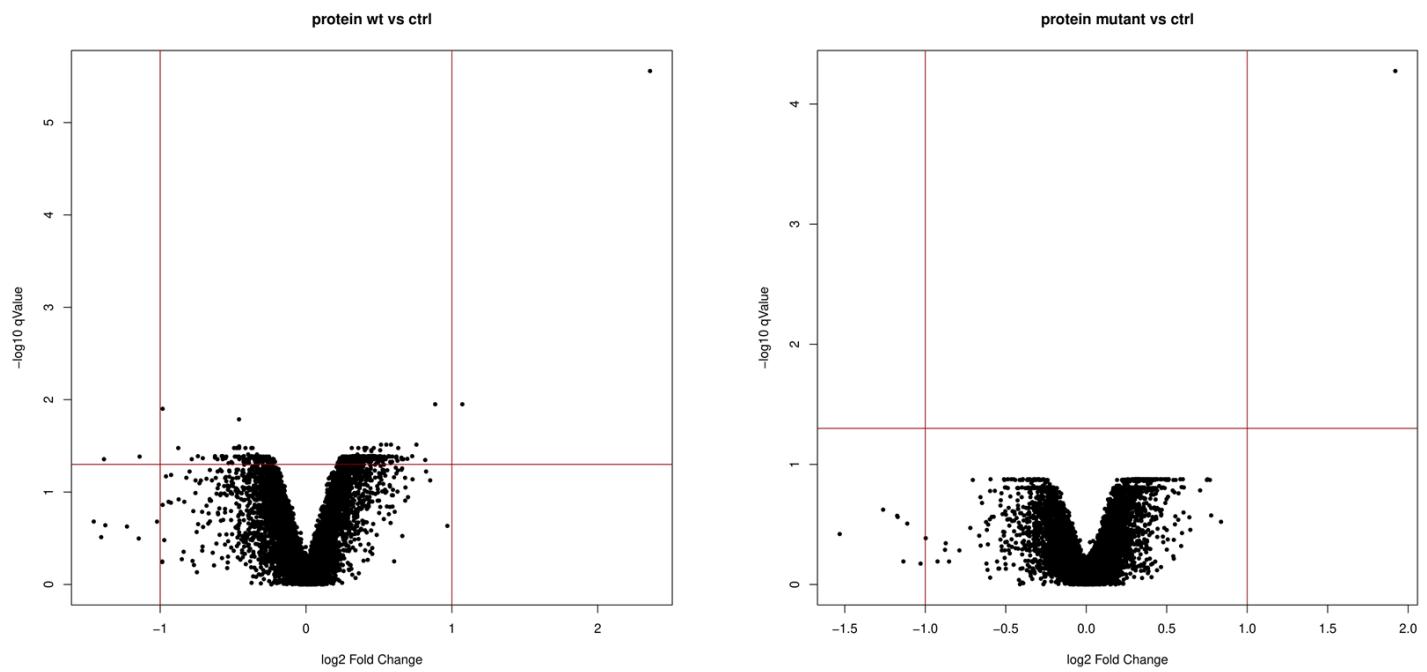
HepG2 cells - 72 h



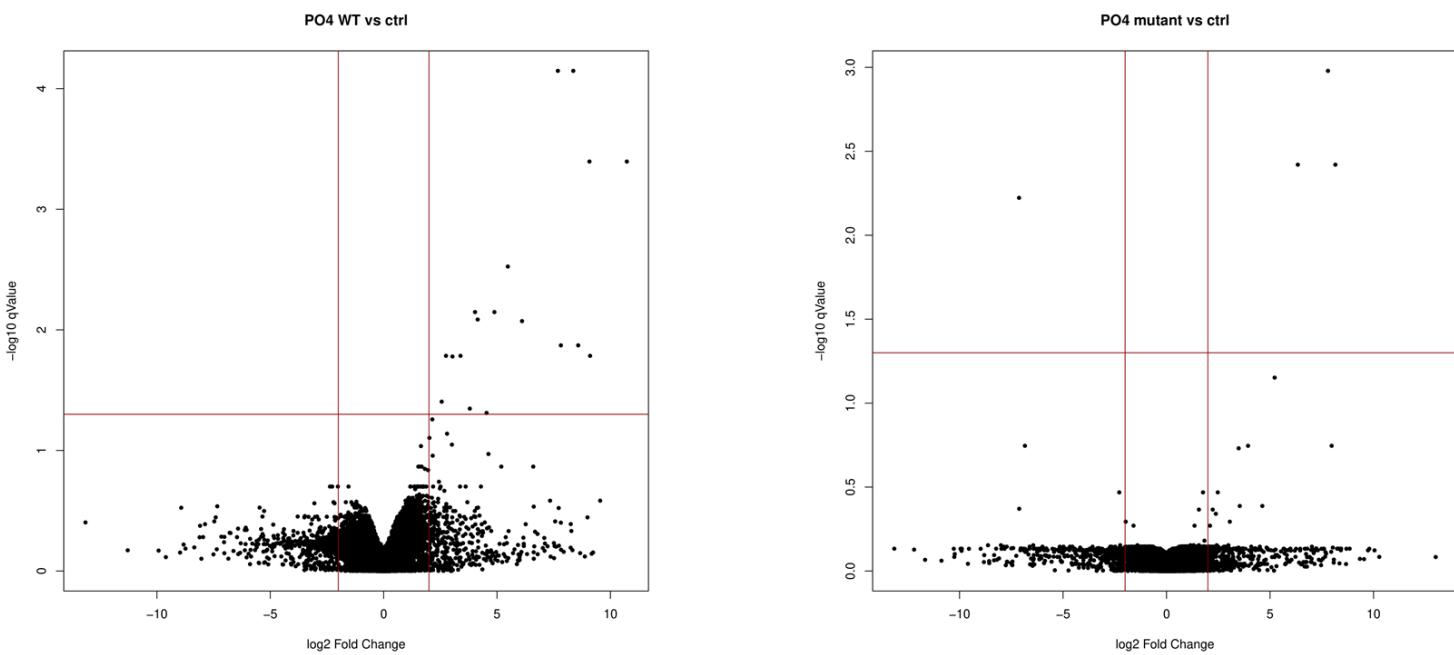
**Figure S2: Determination of reactive oxygen species (ROS) production.**  
Intracellular ROS levels were determined in non-responder HepG2 cells using the MitoSox assay (ThermoFischer) 72h post transfection. Cells were transfected with NS1-wt GFP or NS1-T585E GFP. Antimycin A treated cells were used as a positive control. GFP expressing cells were used as a negative control. >1400 high GFP expressing cells per group were counted.



**Figure S3: Viability of transfected primary mouse hepatocytes.** Viability determined by the MTT assays of non-responder primary hepatocytes transfected with empty pcDNA3.1+ vector (mock), pcDNA3.1-NS1-wt, or with pcDNA3.1-NS1-mutant. Relative viability was determined 72h post transfection and normalized to pcDNA3.1+ (mock) transfection. Values are means  $\pm$  SEM ( $n = 10$  measurements).



**Figure S4:** Volcano plot depicting the changes in the proteome after NS1-wt (left) and NS1-T585E (right) expression. Log(2) of ratios of protein levels after NS1 (wt, left or mutant T585E, right) and empty plasmid (mock) transfection of Hep3B cells (x-axis) blotted against the neg. log(10) of corresponding q-values (y-axis).



**Figure S5: Volcano plot depicting the changes of protein phosphorylation after NS1-wt (left) and NS1-T585E (right) expression.** Log(2) of ratios of identified phosphorylated proteins after NS1 (wt, left or mutant T585E, right) and empty plasmid (mock) transfection of Hep3B cells (x-axis) blotted against the neg. log(10) of corresponding q-values (y-axis).