***Supplementary Material***

**DHAV-1 inhibits type I interferon signalling to assist viral adaption by increasing the expression of SOCS3**

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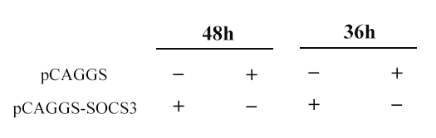
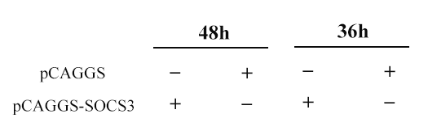
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**Supplementary Figures**



**Supplementary Figure 1.** Raw data of western blot. Interaction between IFNs and SOCS3. pCAGGS-SOCS3-His and pCAGGS-IFNα/γ-FLAG were co-transfected into CEFs, which were harvested 36 h and 48 h after transfection. Last three lines were the confirmation the expression of SOCS3 protein. Graph above is Western blot analysis of SOCS3 expression. Graph below is Western blot analysis of β-actin expression.

A



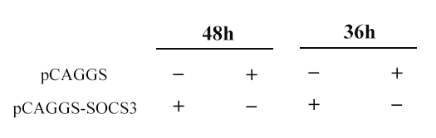
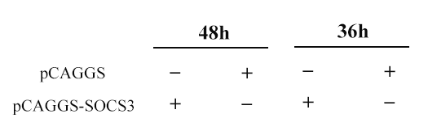




IFNα

IFNγ

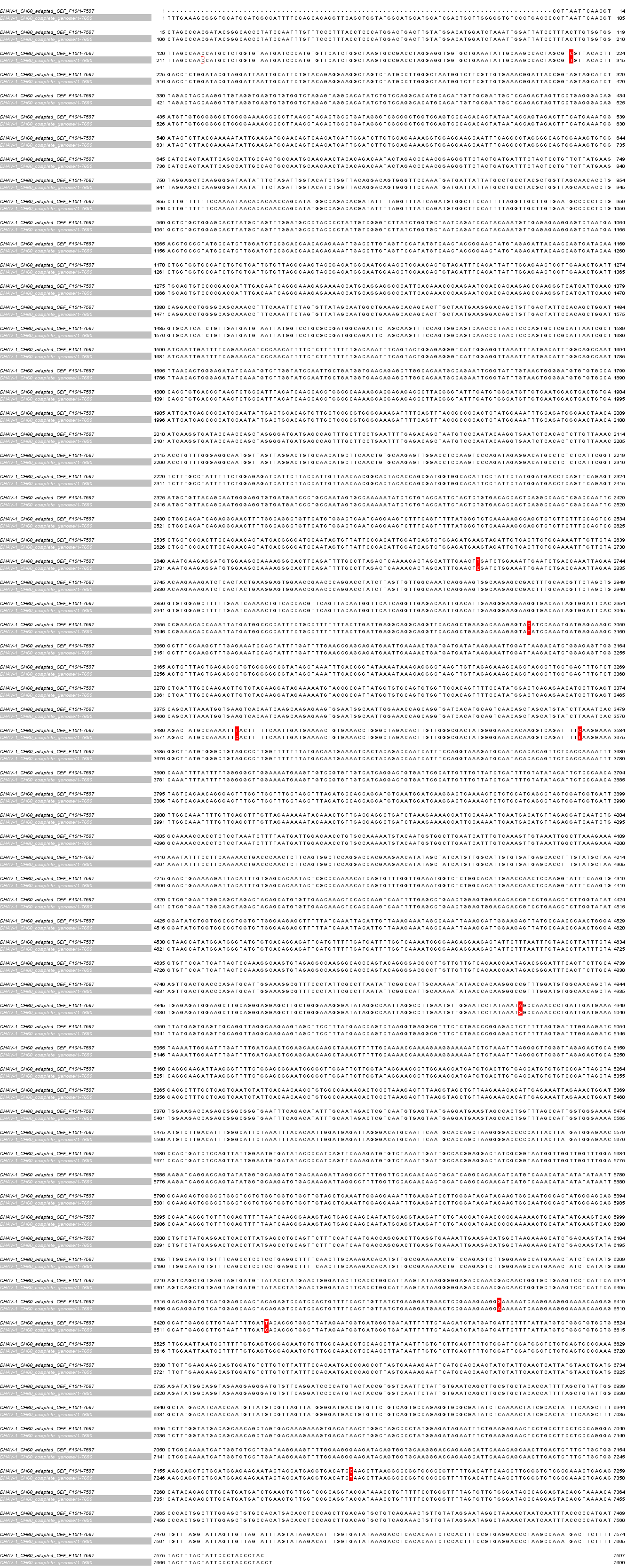
B



β-actin

C

**Supplementary Figure 2.** Raw data of western blot. Interaction between IFNs and SOCS3. pCAGGS-SOCS3-His and pCAGGS-IFNα/γ-FLAG were co-transfected into CEFs, which were harvested 36 h and 48 h after transfection. (A) Western blot analysis of IFNα/γ-FLAG expression. (B) Western blot analysis of β-actin expression. (C) the confirmation the expression of IFNα/β/γ protein.



**Supplementary Figure 3.** The amino-acid sequence analysis of DHAV-1 CH60 strain and DHAV-1 CH60 adapted strain. red region indicates differential sequence.

A B



**Supplementary Figure 4.** Raw data of western blot. (A) Interaction of IFNα and SOCS3. CEFs were transfected with pCAGGS-IFNα-Flag and pCAGGS-SOCS3-His for 48 h before the coimmunoprecipitation and immunoblot analysis with the indicated antibodies. (B) Western blot analysis of STAT1 expression. DHAV-1 infected CEFs at 48 hpi and after the addition of 100 pg IFNα to stimulate CEFs at 37℃ for 15 min. Cells were harvested after stimulation.