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**Supplementary Figure 1. Effect of inhibition of Nr1d1 expression on cellular senescence.**

(a-e): MCM was treated with SR8278, and the control was treated with DMSO. (a) Immunoblotting of *NR1D1* protein levels in MCM cells. (b): MEM proliferation was detected by MTT assay. (c): Apoptosis of MEM detected by annexin V-PE/7-AAD. On the left is a representative flow cytometric scatter plot, and on the right is a graph of apoptosis statistics. (d): Cell cycle analysis in MCM performed by FCM (e): Analysis of Senescence-associated beta-galactosidase staining in MCM. The image on the left is a representative field of view, scale bars: 50 μm. The graph on the right shows the number of cells that were stained blue in each random field of view. Each experiment was repeated 3 times, and 10 random fields of view were counted each time. Data were collected from more than three independent experiments, and presented as mean ± SD.\*P < 0.05, \*\*P < 0.01, and \*\*\*P < 0.001.

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**Supplementary Figure 2. Effect of promoting Nr1d1 expression on cellular senescence.**

(a-e): MCM was treated with GSK4112, and the control was treated with DMSO. (a) Immunoblotting of *NR1D1* protein levels in MCM cells. (b): MEM proliferation was detected by MTT assay. (c): Apoptosis of MEM detected by annexin V-PE/7-AAD. On the left is a representative flow cytometric scatter plot, and on the right is a graph of apoptosis statistics. (d): Cell cycle analysis in MCM performed by FCM (e): Analysis of Senescence-associated beta-galactosidase staining in MCM. The image on the left is a representative field of view, scale bars: 50 μm. The graph on the right shows the number of cells that were stained blue in each random field of view. Each experiment was repeated 3 times, and 10 random fields of view were counted each time. Data were collected from more than three independent experiments, and presented as mean ± SD. \*\*P < 0.01, and \*\*\*P < 0.001.