

Description of Additional Supplementary Files

Supplementary Movie 1: Calcium activity in the trans-differentiated astrocytes transduced with an adeno-associated virus (AAV) that expressed GCaMP6s under the control of the neuronal synaptophysin promoter hSyn (hSyn.GCaMP6s).

Supplementary Movie 2: Calcium activity in the primary neurons transduced with an AAV that expressed hSyn.GCaMP6s.

Supplementary Movie 3: Calcium activity in the control astrocytes transduced with an AAV that expressed hSyn.GCaMP6s.

Supplementary Movie 4: Calcium activity in the control astrocytes transduced with a lentivirus expressed GCaMP6s under the ubiquitous promoter (pHAGE-RSV-GCaMP6s).