

SUPPORTING INFORMATION

***SIL1*, a causative cochaperone gene of Marinesco-Sjögren syndrome, plays an essential role in establishing the architecture of the developing cerebral cortex**

Yutaka Inaguma, Nanako Hamada, Hidenori Tabata, Ikuko Iwamoto, Makoto Mizuno,
Yoshiaki V Nishimura, Hidenori Ito, Rika Morishita, Motomasa Suzuki, Kinji Ohno,
Toshiyuki Kumagai, Koh-ichi Nagata

Table of Contents

Supporting Information Figures

S.I. Figure 1: Effects of functional defects of the SIL1-HSPA5 chaperone system on neuronal positioning at E17 and P7 during mouse brain development.....3

S.I. Figure 2: Effects of functional defects of the SIL1-HSPA5 system on caspase3 activity during mouse brain development.....5

S.I. Figure 3: Effects of defective SIL1-HSPA5 system on differentiation of mislocalized neurons..... 7

Supporting Information Methods..... 8

Supporting Information References..... 8

Supporting Information Videos..... 8

Supplementary video 1: Control neuron migration at a low magnification.

Supplementary video 2: SIL1-deficient neuron migration at a low magnification.

Supplementary video 3: Time-lapse imaging of morphological change of a control neuron migrating in upper IZ - lower CP.

Supplementary video 4: Time-lapse imaging of morphological change of a SIL1-deficient neuron stranded in upper IZ - lower CP.

Supplementary video 5: Time-lapse imaging of morphological change of a control neuron migrating in CP.

Supplementary video 6: Time-lapse imaging of morphological change of a SIL1-deficient neuron migrating in CP.