

Supplementary Materials for

Functional changes of AMPA responses in human induced pluripotent stem cell–derived neural progenitors in fragile X syndrome

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Fig. S1. Characterization of human iPSC lines.

Table S1. Primer sequences used in real-time quantitative PCR.

Cell line	CGG repeat	Phenotype	<i>FMR1</i> mRNA expression	FMRP expression	Ref.
HEL46.11	< 50	normal	+	+	23
HEL23.3	< 50	normal	+	+	23
HEL11.4	< 50	normal	+	+	23,77
HEL100.1	> 200	FXS	-	-	23
HEL100.2	> 200	FXS	-	-	23
HEL69.5	> 200	FXS	-	-	23
HEL70.3	> 200	FXS	-	-	23

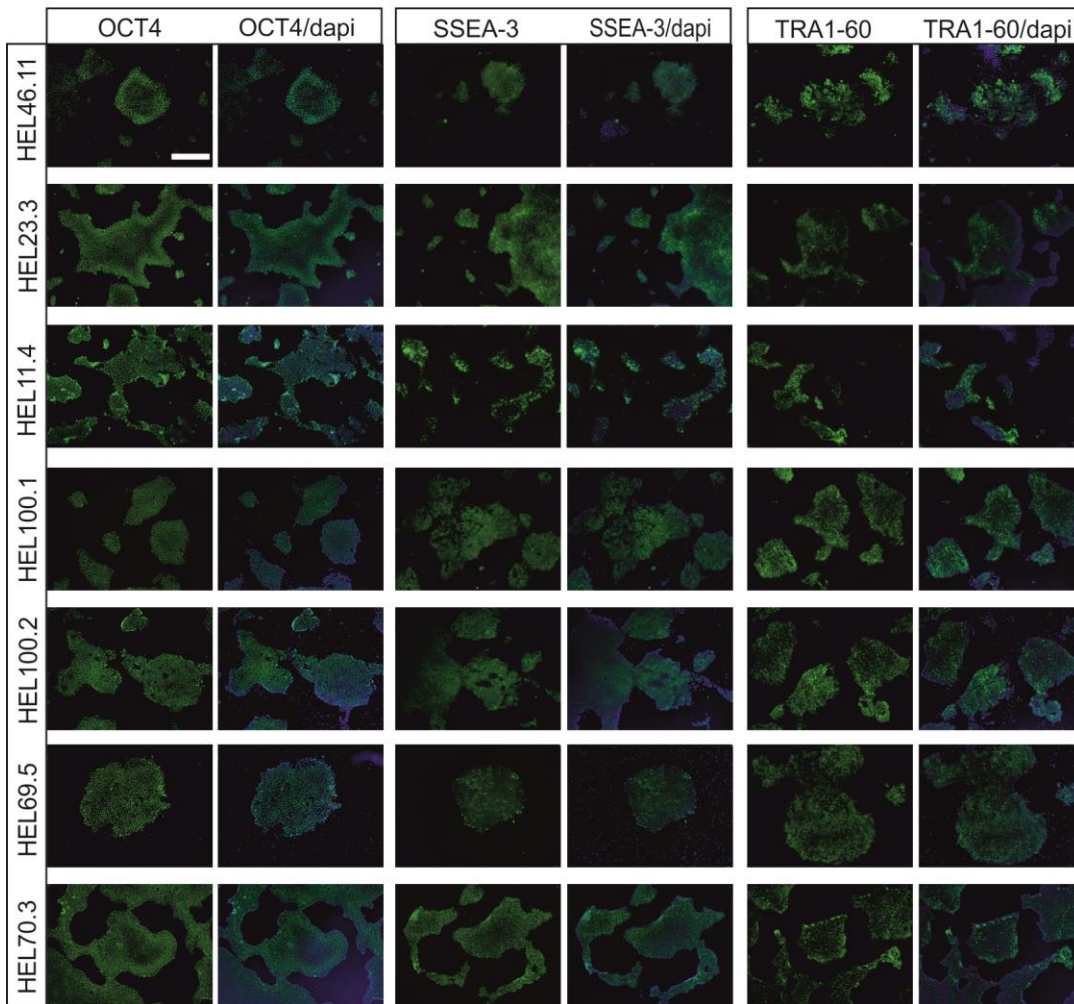


Fig. S1. Characterization of human iPSC lines. The CGG repeat size, *FMR1* gene and protein expression of human control and FXS iPSC cell lines used in the study. All cell clones were positive for OCT4, SSEA-3, TRA1-60 pluripotent markers (Scale bar, 100 μ m).

Table S1. Primer sequences used in real-time quantitative PCR.

Gene	Forward primer	Reverse primer
<i>GRIA1</i>	5'-CCCTGAGAGGTCCCGTAAAC-3'	5'-ACTTCCGGAGTCCTTGCTTC-3'
<i>GAPDH</i>	5'-TGTTCCAATATGATTCCACCC-3'	5'-CTTCTCCATGGTGCGTGAAGA-3'
<i>Gria1</i>	5'-GGGGTCCGCCCTGAGAAATCCA-3'	5'-TGGAGTCACCTCCCCCGCTG-3'
<i>Gria2</i>	5'-CGGGGGAGGTGATTCCAAGGAAAAG- 3'	5'-CCAAACCAAGGCCCCCGACA-3'
<i>Gapdh</i>	5'-AACGACCCCTTCATTGAC-3'	5'-TCCACGACATACTCAGCAC-3'

microRNA	Primer	miRBase Accession number
<i>miR-181a-5p</i>	AACAUUCAACGCUGUCGGUGAGU	MI0000289
<i>miR-181a-3p</i>	ACCAUCGACCGUUGAUUGUACC	MI0000289
<i>miR-191-5p</i>	CAACGGAAUCCCAAAGCAGCUG	MI0000465