

Human Neural Stem Cells (iPSC-derived, SOD1 mutant, A4V, HOM)

Catalog Number	40HU-111-2M	Packaging Size	2.0 million cells/vial
Species	<i>Homo sapiens</i>	Lot Number	400444

Donor Information:

This lot of human Neural Stem Cells is derived from a genetically modified normal iPSC line carrying the homozygous A4V mutation in the SOD1 gene (59 years old Caucasian Male).

QA/QC Tests:

Test	Results
1. Number of viable cells	≥ 2.0 million
2. Bacteria, Yeast, Mycoplasma, Other Fungi	Negative
3. Purity Purity by morphology and antibody staining	≥ 90% of cells are Nestin/PAX6 positive
4. HIV, HBV, HCV	Negative
5. Homozygous A4V mutation (confirmed by PCR/Sanger sequencing)	Pass

These cells were obtained through an IRB approved donor program.

Recommended Storage Condition: Upon arrival, please use product immediately or keep in liquid nitrogen storage.

Cells are for *in vitro* research purposes only and are not intended for use in humans.

WARNING: in accordance with OSHA and CDC guidelines, all specimens should be handled as though they contain agents infectious to humans and follow appropriate safety control procedures to ensure the safety of using these products.

Approved By:



Image Analysis Report

Product Name: Human Neural Stem Cells (iPSC-derived, SOD1 mutant, A4V, HOM)

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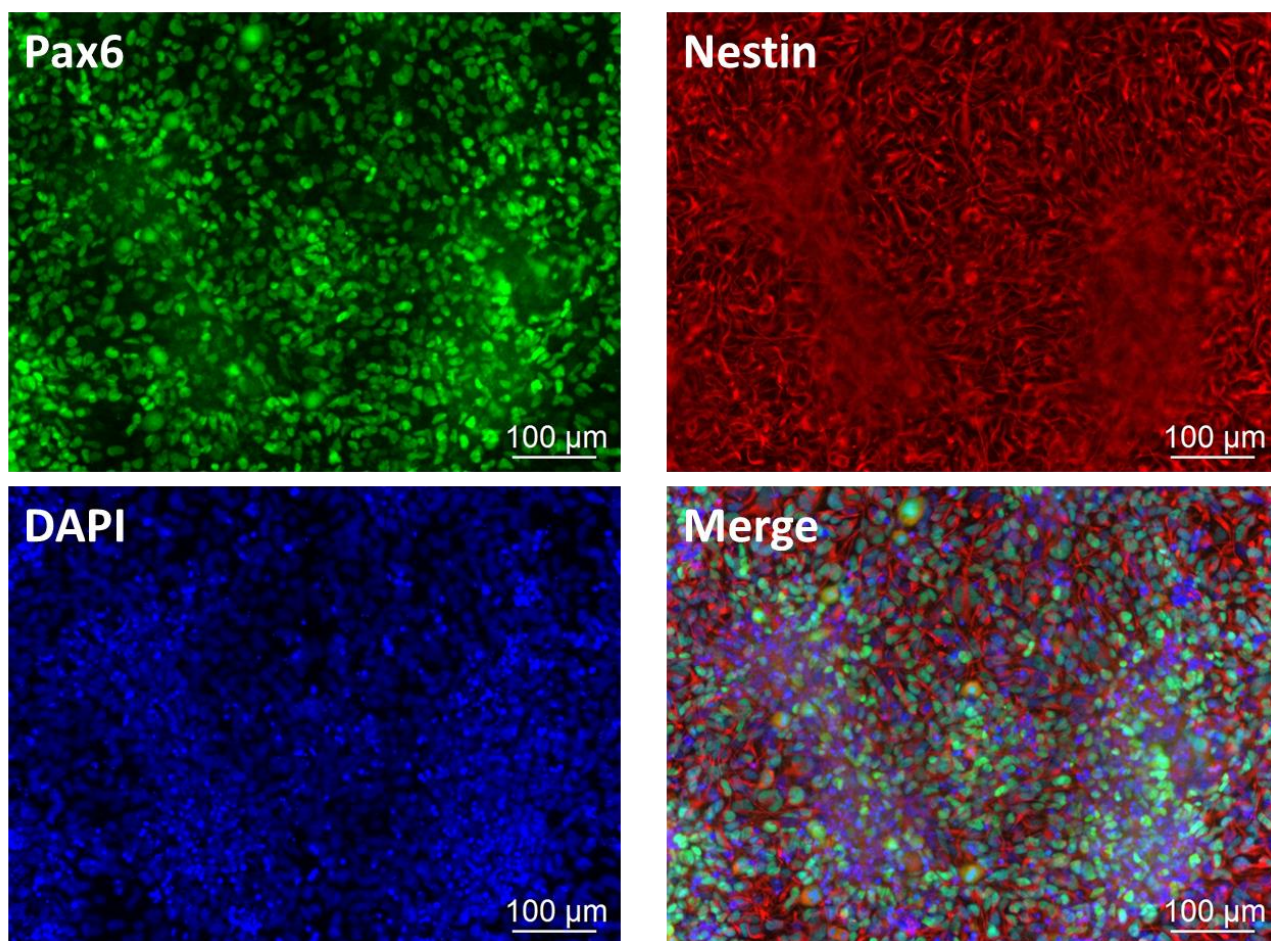


Figure 1: The cells were recovered and seeded at 200,000 viable cells in Human Neural Stem Cell Growth Medium (Cat#MD-0024) on one well of a Cultrex-coated 48-well plate. The cells were fixed at day 3 post recovery and stained with anti-Pax6 (green) and Nestin (red) antibodies. Scale bar: 100 µm.

Sequence Analysis Report

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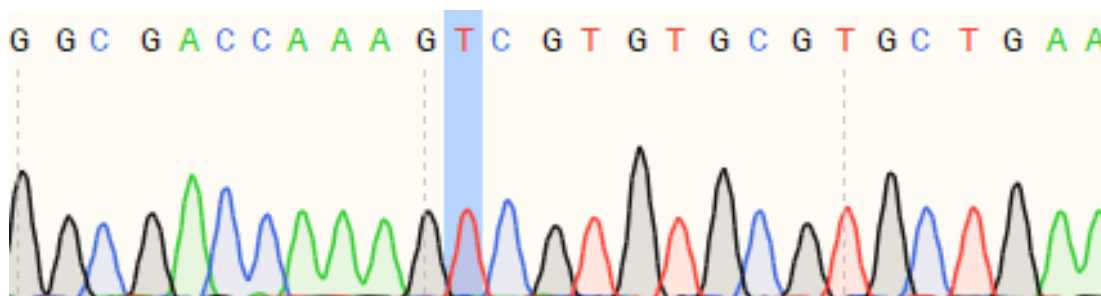


Figure 2: Homozygous A4V mutation (highlighted in Blue) has been introduced to SOD1 gene using CRISPR/Cas9 based genome editing technology. The targeted site is verified by genomic PCR/Sanger sequencing.