Stem Cell Technology Center Certificate of analysis

: stemcelltechnologycentergenetica.gen@radboudumc.nl
: +31(0)650098386
: https://www.radboudumc.nl/en/research/radboud-technology-centers/stem-cells

Stem cell
Technology Center

VAT number NL861608884B01
Chamber of Commerce number 80262783

Radboudumc
Department of Human Genetics
Internal postal code 855
P.O. Box 9100 6500 HB Nijmegen, The Netherlands

Invoice number: SCTC2025-00020

Investigator name: Prof. Sarah Weckhuysen

Project name: KCNQ2

Cell line ID: ISO_R201C_L

Table 1: Information on the iPSC line

Product description	Pluripotency assesment in iPSCs
Original cell line	ISO_R201C_L
Number of clones Passage (P) of iPSCs reported at assesment	1 P26
Culture medium Culture coating Passage method	Essential 8 Flex medium Matrigel EDTA

Table 2: Information on the characterization of the iPSC line

Test	Assay	Results
Sterility	Mycoplasma	Not detected
Phenotype	Visual assessment of morphology Immunocytochemistry for undifferentiation markers	Typical iPSC colonies Positive signal
Differentiation potential	Directed differentiation and immunocytochemistry for trilineage markers	Positive signal

Expression of undifferentiation markers

The iPSC clone was stained for the nuclear markers NANOG and OCT4 and surface antigens SSEA4 and TRA-1-81. All markers are expressed in human pluripotent stem cells.

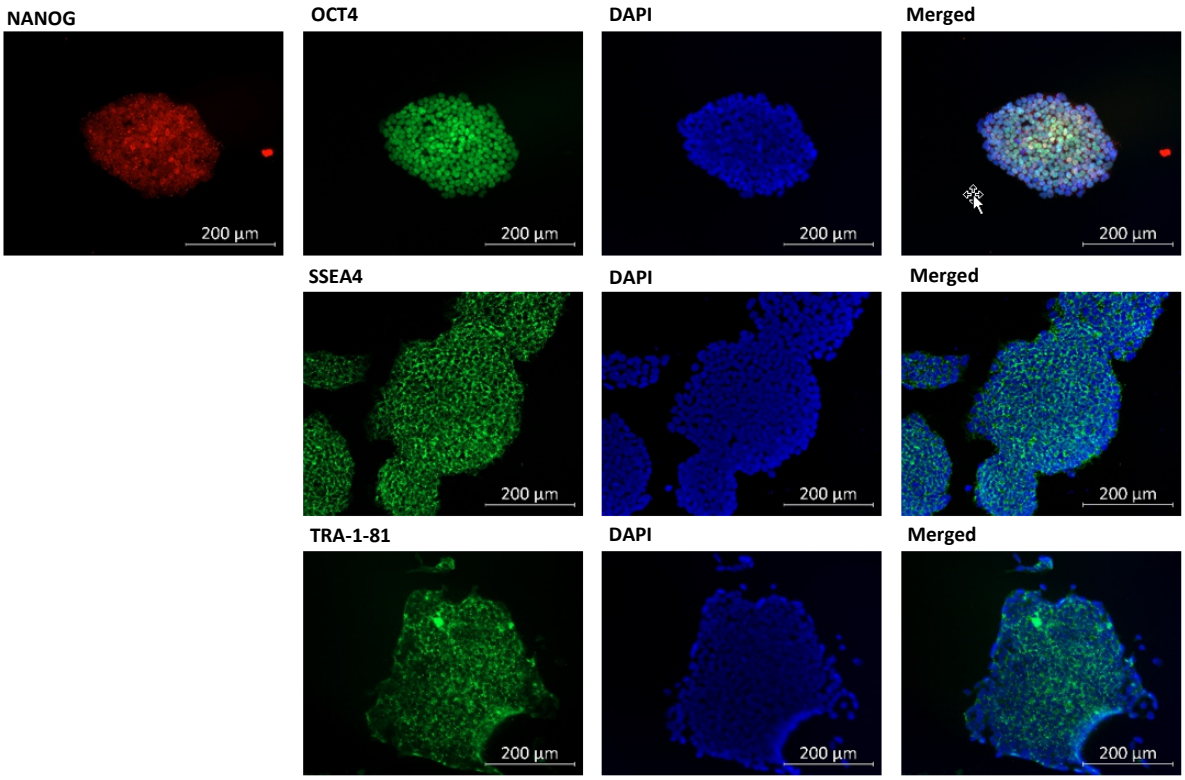

Figure 2: Immunocytochemistry of the iPSC clone showing a positive signal for undifferentiation markers.

Differentiation potential

The line was differentiated into the endodermal, mesodermal and ectodermal germ layers. The differentiated cells were stained for trineage specific markers.

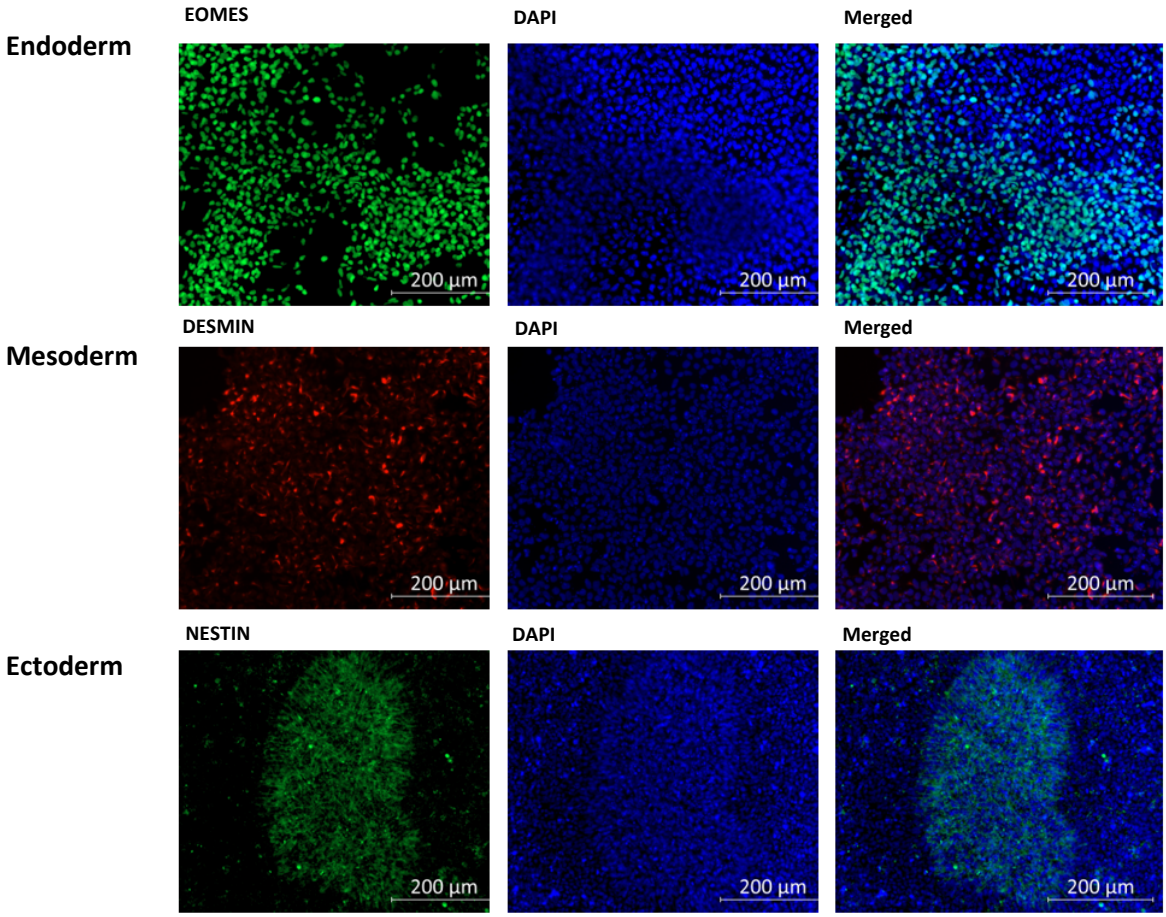

Figure 3: Immunocytochemistry of differentiated cells showing a positive signal for germlayer-specific markers.

Silvia Albert

Silvia Albert, PhD
Manager, Radboud Stem Cell Technology Center
Date 17-07-2025