

Characterization of hPSC

Cell Line Name	NCRM5AS-iCAGcGFP.c9		
Type of Cell Line	hiPSC		
Depositor (Institution)	NIH Center for Regenerative Medicine (US)		
Passage #	p73*		
Day of Cell Freezing	20181004		
Analysis	Result	Passage #	Day of analysis
Cell viability	Pass (67.33±0.05 %)	p74	20181017
Authentication (STR)	pass	p74	20181030
Mycoplasma test (PCR)	Pass	p74	20181031
Cell attachment and colony morphology	Pass	p70	20180911
Karyotype (G-banding)	46,XY	p73	20181016
Stem Cell Marker Expression			
· AP staining	Pass	p71	20181018
· ICC	Pass	p71	20181018
· qRT-PCR	Pass	p71	20181011
Differentiation Marker Expression			
· EB formation, GFP expression	pass	p73	20181004
· qRT-PCR	pass	p74	20181026

- * Freezing media - Stem-Cell Banker GMP grade (Amsbio, Cat. 11897)
- * Freezing method - Controlled Rate Freezer

Cell Culture Condition

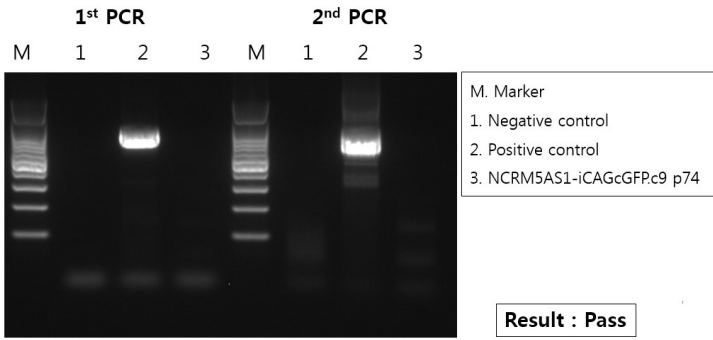
- Feeder/matrix Vitronectin (Gibco, A14700)
- Media TeSR-E8 (Stem Cell Technol, ST05940)
- Passage method EZPassage(StemPro, 23181-010)

Description by depositor

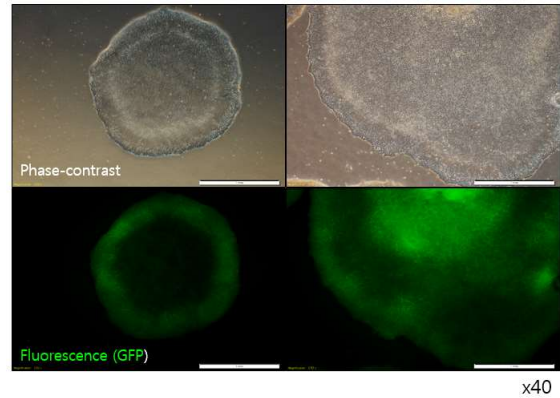
- Parental Cell NCRM-5 (NCRM Cat#CR0000013)
(CD34+ cord blood ; episomal plasmid)
- Genetic modification GFP-report tagged; TALEN

Luo et al., 2014. Stem Cell Translational Med (3) 821-835.
- Reference Stable enhanced green fluorescent protein expression after differentiation and transplantation of reporter human induced pluripotent stem cells generated by AAVS1 transcription activator-like effector nucleases.

Mycoplasma contamination test



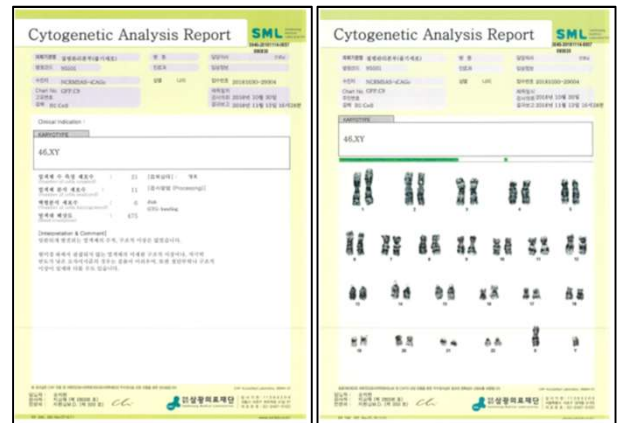
Cell morphology



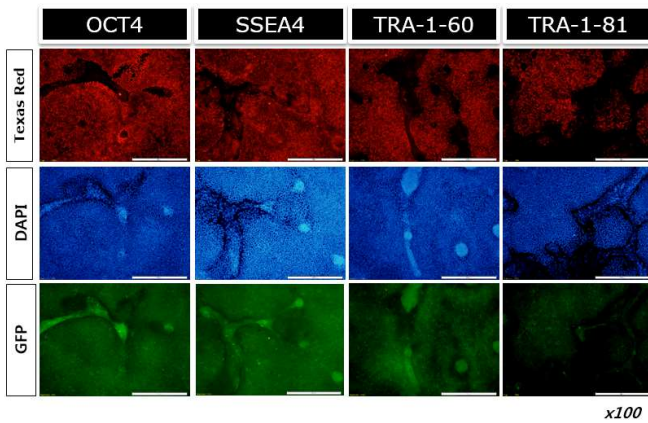
Microbial contamination test

항생제 감수성 검사 결과 보고서	항생제 감수성 검사 결과 보고서
<p>항생제 감수성 검사 결과 보고서</p> <p>항생제 감수성 검사 결과 보고서</p> <p>항생제 감수성 검사 결과 보고서</p>	<p>항생제 감수성 검사 결과 보고서</p> <p>항생제 감수성 검사 결과 보고서</p> <p>항생제 감수성 검사 결과 보고서</p>

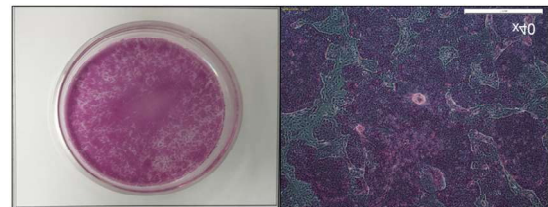
Karyotype



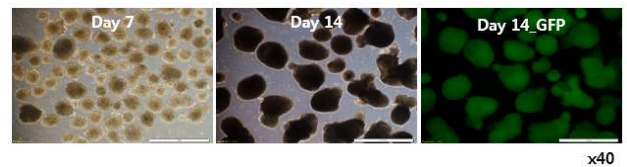
Stem cell marker gene and GFP expression



AP staining



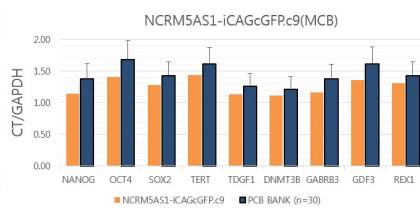
EB formation



Stem cell marker gene expression

<qRT-PCR>

Gene	Ct Mean
NANOG	21.47
OCT4	26.31
SOX2	23.91
TERT	26.96
TDGF1	21.23
DNMT3B	20.89
GABRB3	21.70
GDF3	25.53
REX1	24.51
GAPDH	18.73



Differentiation marker gene expression (EB14d)

<qRT-PCR>

Gene	Ct Mean
PAX6	25.29
SOX1	31.75
HNF3B	23.75
AFP	22.54
T	27.92
MYOG	32.83
ACTB	18.33
GAPDH	19.30

