

Characterization of hPSC

Cell Line Name	CMC-hiPSC-009			
Type of Cell Line	hiPSC			
Depositor (Institution)	Catholic University of Korea			
Passage #	p32*			
Day of Cell Freezing	20200915*			
	Analysis	Result	Passage#	Day of analysis
	Cell viability	Pass(71.7±3.9%)	p32	20201020
	Authentication (STR)	Pass	p34	20201028
	Mycoplasma test (PCR)	Pass	p34	20201029
	Cell attachment and colony morphology	Pass	p30	20200910
	Microbial contamination test (Virus, Fungi, bacteria)	Pass	p34	20201028
	Karyotype (G-banding)	46,XY	p24	20201028
	CNV analysis (CNV_chip)	20q11.21(gain) 20q11.21(gain), 5q15(loss)	p34 p37	20201218 20201218
	Stem Cell Marker Expression			
	· AP staining	Pass (Positive)	p31	20200910
	· qRT-PCR	Pass (Positive)	p32	20200921
	Differentiation Marker Expression			
	· EB formation	Pass (EB14d)	p30	20200923
	· qRT-PCR	Pass (Positive)	p30	20200923
	· Teratoma formation	Pass	p30	20200814
* Freezing media : Stem-cellbanker (AMSBIO, Cat# I 1894), Freezing method : CRF				
	HLA genotype	HLA-A *24:02 *24:02 HLA-B *07:02 *07:02 HLA-DRB1 *01:01 *01:01	p26	20170620
	ABO genotype	BB	p26	20170620
Cell Culture Condition				
	· Feeder/matrix	Vitronectin (Gibco, A14700)		
	· Media	TeSR-E8 (Stem Cell Technol, ST05940)		
	· Passage (Cell dissociation)	EDTA/Gentle Cell Dissociation Reagent (Stem cell Technol, 07174)		
Description of the hPSC				
	Parental Cell	Cord Blood Cell		
	Reprogram	Sendai virus (CytoTune-iPS Reprogramming kit, Invitrogen) OCT3/4, SOX2, KLF4, c-MYC		
Reference				
Rim YA et al. Recent progress of national banking project on homozygous HLA-typed induced pluripotent stem cells in South Korea. J Tissue Eng Regen Med. 2018 Mar;12(3):e1531-e1536.				

