

Characterization of hPSC

Cell Line Name	PB01-EiPS21(Ruby2)		
Alternative Name	PB01-EiPS21(CAG-Ruby2)		
Type of Cell Line	hiPSC		
Depositor (Institution)	Korea National Institute of Health		
Passage #	p43*		
Day of Cell Freezing	20221111		
Analysis	Result	Passage #	Day of analysis
Cell viability	Pass (85.3±0.5%)	p45	20221116
Authentication (STR)	Pass	p45	20221209
Mycoplasma test (PCR)	Pass	p45	20221217
Cell attachment and colony morphology	Pass Live cell# : 6.0±4.5x10 ⁶ cells/ml	p45	20221122
Bacterial, and fungal contamination test	Pass	p46	20221224
Viral contamination test	Pass	p46	20221212
Karyotype (G-banding)	46,XY	p46	20221220
Stem Cell Marker Expression			
· AP staining	Pass (positive)	p43	20221101
· ICC	Pass (positive)	p45	20221107
· qRT-PCR	Pass (positive)	p46	20221106
Differentiation Marker Expression			
· EB formation	Pass(EB14d)	p44	20221110
· qRT-PCR	Pass (positive)	p44	20221110
Fluorescent expression (Ruby)	Pass (positive)	p43	20221110

* Freezing media : Stem-cellbanker (Zenoaq #BLC-3-1)

Cell Culture Condition

- Feeder(matrix) : - Vitronectin (Gibco, A14700)
- Media : - StemFlex (Gibco/Thermo-Fisher A3349401)
- Passage (Cell dissociation) - EDTA or Gentle Cell Dissociation Reagent (Stem cell Technol, 07174)
- EZPassage (Thermo-Fisher 23181010)

Genetic Modification

- Parental Cell - PB01-EiPSC21 (Korea National Institute of Health)
PBMC
- Genetic modification - CRISPR/Cas9, EGFP knock-in, AAVS1 locus

