

Characterization of hPSC

Cell Line Name	PB01-EiPS21-EGFP05		
Type of Cell Line	hiPSC		
Depositor (Institution)	Korea National Institute of Health		
Passage #	p41*		
Day of Cell Freezing	20221111		
Analysis	Result	Passage #	Day of analysis
Cell viability	Pass(52.3%) Live cell# : 8.71x10 ⁵ cell/ml	p41	20221123
Authentication (STR)	Pass	p42	20221208
Mycoplasma test (PCR)	Pass	p42	20221227
Cell attachment and colony morphology	Pass	p42	20221128
Bacterial, and fungal contamination test	Pass	p42	20221220
Viral contamination test	Pass	p42	20221208
Karyotype (G-banding)	46,XY	p42	20221213
Stem Cell Marker Expression			
· AP staining	Pass (positive)	p41	20211229
· ICC	Pass (positive)	p41	20220104
· qRT-PCR	Pass (positive)	p41	20210624
Differentiation Marker Expression			
· EB formation	Pass (EB14d)	p40	20210729
· qRT-PCR	Pass (positive)	p40	20210804
GFP Expression	Pass (positive)	p40	20210729

* 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

