

STR Authentication Report For Cell Line

1. Cell Name: IPSC-DYR0100

2. Test Method: DNA was extracted using the genome extraction kit (Axygen), amplified using a 21- STR amplification protocol, the STR loci and gender gene Amelogenin were detected on the ABI 3730XL Genetic Analyzer.

3. Sample gene genotype analysis result:

Genotype analysis results of STR and Amelogenin loci in cells						
STR Loci	STR profile for Sample cell			STR profile for Cell Bank cell		
	Cell name: IPSC			Cell name: ATCC- DYR0100 hiPSC		
	Allele1	Allele2	Allele3	Allele1	Allele2	Allele3
D5S818	11	11		11	11	
D13S317	11	13		11	13	
D7S820	9	10		9	10	
D16S539	12	12		12	12	
VWA	14	19		14	19	
TH01	9.3	9.3		9.3	9.3	
AMEL	X	Y		X	Y	
TPOX	8	11		8	11	
CSF1PO	7	11		7	11	
D12S391	18	19.3				
FGA	21	22				
D2S1338	17	19				
D21S11	30	32.2				
D18S51	10	13				
D8S1179	14	15				
D3S1358	15	17				
D6S1043	12	13				

PENTAE	7	7				
D19S433	14	15				
PENTAD	12	13				
D1S1656	12	17.3				

4. Conclusion: The STR results of **IPSC-DYR0100** cells are consistent with the genotypes of **ATCC- DYR0100 hiPSC** cell lines in **DSMZ** database, the cell ID corresponded to **ACS-1011** , and the STR results **completely matched**. In the test, **No multi allele was found** in this cell line.

5. Attached Image

