

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



