(1) UBIGER

(1) UBIGENE **STR Authentication Report For Cell Line**

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1. Cell Name: ACT-1

- 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 resu | Its of STR and | Amelogenin | loci in cells | | |
|----------|---|---------------|----------------|---|---------------|---------|--|
| .0 | STR profile for Sample cell Cell name: STR25031415 | | | STR profile for Cell Bank cell Cell name: ACT-1 [Human thyroid carcinoma] | | | |
| STR Loci | | | | | | | |
| | Allele1 | Allele2 | Allele3 | Allele1 | Allele2 | Allele3 | |
| D5S818 | 11 | 13 | | 11 | 13 | | |
| D13S317 | 10 | 12 | | 10 | 12 | IBIGH | |
| D7S820 | 10 | 11 | | 10 | 11 | | |
| D16S539 | 9 | 11 | | 9 | 11 | | |
| VWA | 17 | 18 | | 17 | 18 | | |
| TH01 | 6 | 9 | | 6 | 9 | | |
| AMEL | Х | Х | | X | Х | | |
| ТРОХ | 8 | 8 | JUBIC | 8 | 8 | | |
| CSF1PO | 11 | 12 | | 11 | 12 | | |
| D12S391 | 18 | 20 | | | | - IBIGI | |
| FGA | 23 | 24 | | | (2) | | |
| D2S1338 | 19 | 22 | | | | | |
| D21S11 | 30 | 31 | | | | | |
| D18S51 | 15 | 16 | | | | | |

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| D8S1179 | GF 11 | 14 | | | | |
|---------|-------|----|------|-----|-----|----------|
| D3S1358 | 16 | 16 | | | | |
| D6S1043 | 12 | 14 | . C | ENE | | |
| PENTAE | 12 | 18 | UBIC | | | |
| D19S433 | 14 | 14 | | | | a E l |
| PENTAD | 9 | 11 | | | | * I BIOL |
| D1S1656 | 15 | 16 | | | (2) | |

4. Conclusion: The STR results of <u>ACT-1</u> cells are consistent with the genotypes of <u>ACT-1</u> [<u>Human thyroid carcinoma</u>] cell lines in <u>EXPASY</u> database, the cell ID corresponded to <u>CVCL_6291</u>, and the STR results <u>completely matched</u>. In the test, <u>No multi allele was found</u> in this cell line.

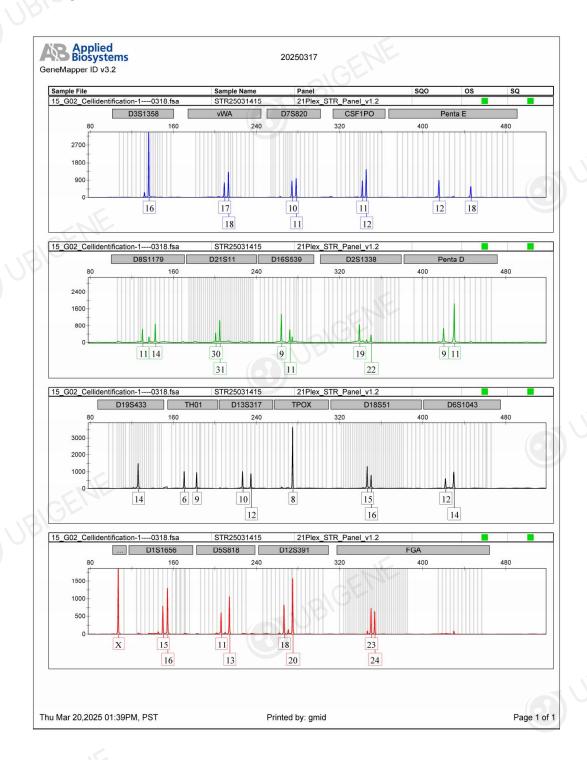
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5. Attached Image



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