# STR Authentication Report For Cell Line

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1. Cell Name: 4T1

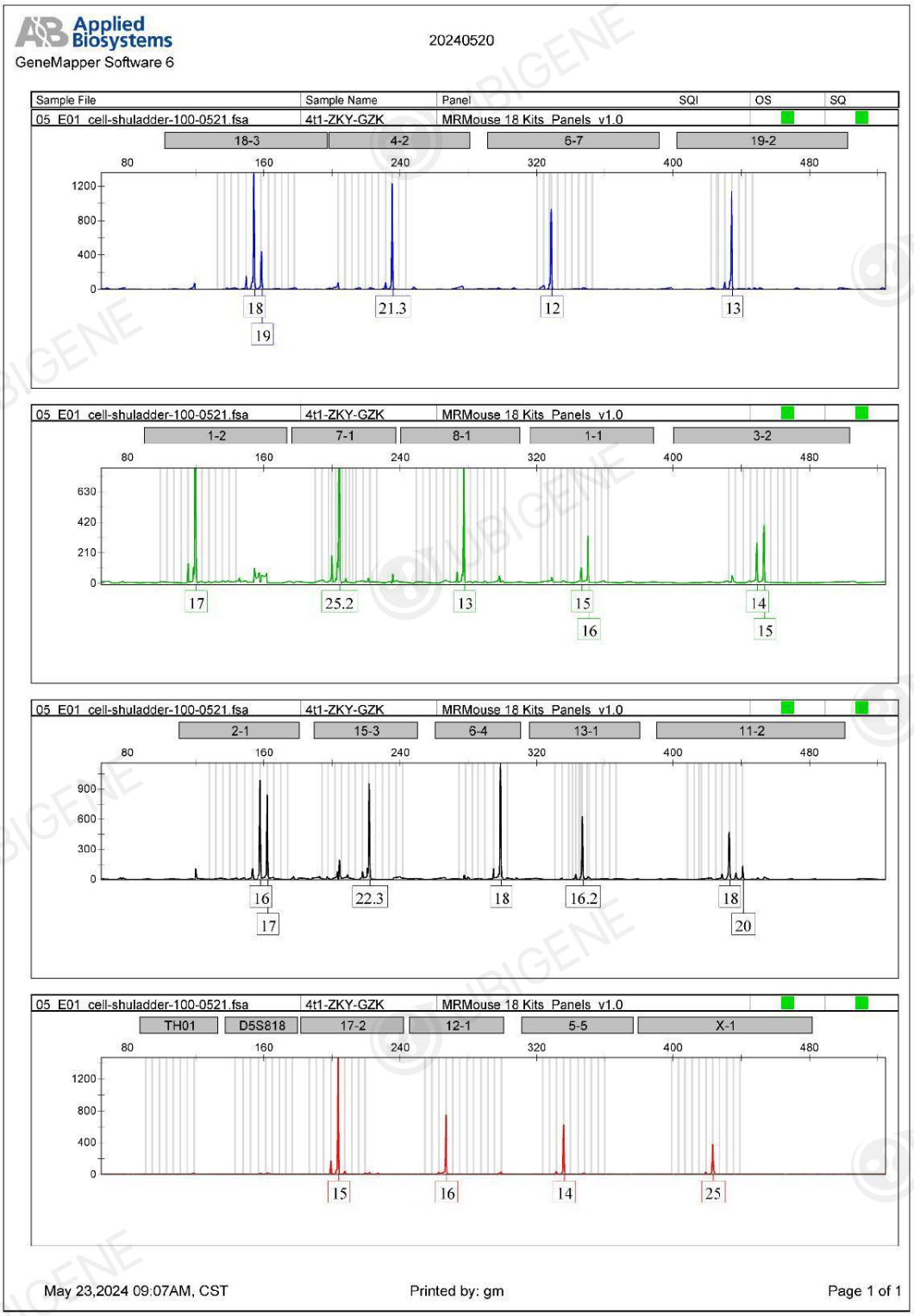
2. Test Method: DNA was extracted using the genome extraction kit (Axygen), amplified using a 20- STR amplification protocol, the STR loci and gender gene Amelogenin were detected on the ABI 3730XL Genetic Analyzer.

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: 4t1-ZKY-GZK | | | | Cell name: 4T1 | | |
| | Allele1 | Allele2 | Allele3 | Allele4 | Allele1 | Allele2 | Allele3 |
| 18-3 | 18.0 | 19.0 | | | 18.0 | 19.0 | |
| 4-2 | 21.3 | | | | 21.3 | | |
| 6-7 | 12.0 | | | | 12.0 | | |
| 19-2 | 13.0 | | | | 13.0 | | |
| 1-2 | 17.0 | | | | 17.0 | | |
| 7-1 | 25.2 | | | | 25.2 | | |
| 8-1 | 13.0 | | | | 13.0 | | |
| 1-1 | 15.0 | 16.0 | | | 15.0 | 16.0 | |
| 3-2 | 14.0 | 15.0 | | | 14.0 | 15.0 | |
| 2-1 | 16.0 | 17.0 | | | 16.0 | 17.0 | |
| 15-3 | 22.3 | | | | 22.3 | | |
| 6-4 | 18.0 | | | | 18.0 | | |
| 13-1 | 16.2 | | | | 16.2 | | |
| 11-2 | 18.0 | 20.0 | | | 18.0 | 19.0 | 20.0 |
| 17-2 | 15.0 | | | | 15.0 | | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 12-1 | 16.0 | | | | 16.0 | | |
| 5-5 | 14.0 | | | | 14.0 | | |
| X-1 | 25.0 | | | | 25.0 | | |
| TH01 | | | | | | | |
| D5S818 | | | | | | | |

Note: The cell lines were compared with the STR data of cell lines from ATCC, DSMZ, JCRB and RIKEN databases, the cell lines not included in the above cell banks could not be matched. D4S2408 and TH01 in the above sites is a human site, which is used to detect whether the cell is contaminated by human sources.

4. Conclusion: This cell line is identified as a mouse cell line. The STR results of **4T1** cells are consistent with the genotypes of **4T1** cell lines in **EXPASY** database, the cell ID corresponded to **CVCL_0125** , and the STR results **basically matched**. In the test, **Multiple alleles were found, no cross-contamination, no human contamination** in this cell line.

## 5. Attached Image