



Cell Line Authentication Service STR Profile Report

Sample Submitted By: Dr. Yusong Zhang
The Second Affiliated Hospital of Soochow University
Email Address: zhangyusong19@163.com
Sales Order: 240124B
Cell Line Designation: 1
Date Sample Received: Jan 24th, 2024
Report Date: Jan 24th, 2024

Methodology: Twenty-one short tandem repeat (STR) loci plus the Amelogenin locus were amplified using the commercially available SiFaSTR™ 23 plex Kit. The cell line sample was processed using the ABI Prism® 3130 XL Genetic Analyzer. Data were analyzed using GeneMapper® ID v3.2 software (Applied Biosystems). Appropriate positive and negative controls were run and confirmed for each sample submitted.

Data Interpretation: Cell lines were authenticated using Short Tandem Repeat (STR) analysis as described in 2021 in ANSI Standard (ASN-0002) by the ATCC Standards Development Organization (SDO) and in Jamie L. Almeida et al., Authentication of Human and Mouse Cell Lines by Short Tandem Repeat (STR) DNA Genotype Analysis. Assay Guidance Manual. PMID: 23805434. Bookshelf ID: NBK144066.

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NOTE: According to the recommendations of IJC on cell line authentication, the report is valid for 3 years since the issue date.

Technical Questions?
GTB Technical Support
+86-512-67486171
service@jsdna.org
Section 505, Yixin BLD
SIP, Suzhou, 215123
Jiangsu, P.R. China

Ordering Questions?
order@jsdna.org
GTB Corporation
+86-512-62806339
Section 303, Yixin BLD
SIP, Suzhou, 215123
Jiangsu, P.R. China



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Test Results for Submitted Sample		ExpASY Reference Database Profile	
Loci	Query Profile: 1	Database Profile: MCF-7	
Amelogenin	X		
D3S1358	16	16	
D5S818	11 12	11 12	
D2S1338	21 23		
TPOX	9 12	9 12	
CSF1PO	10	10	
Penta D	12		
TH01	6	6	
vWA	14 15	14 15	
D7S820	8 9	8 9	
D21S11	30	30	
Penta E	7 12		
D10S1248	14		
D8S1179	10 14	10 14	
D1S1656	11 15.3		
D18S51	14	14	
D12S391	18 20		
D6S1043	12 18		
D19S433	13 14		
D16S539	11 12	11 12	
D13S317	11	11	
FGA	23 25	23 25	

The allele match algorithm compares the 13 core STR loci only, even though alleles from all loci will be reported when available.

Note: Loci highlighted in grey (13 core STR loci) can be made public to verify cell identity. In order to protect the identity of the donor, **please do not publish** the allele calls from all the STR loci tested.

The sample match is based on the reference data available at the time of comparison.

Explanation of Test Results

Cell lines with $\geq 80\%$ match are derived from the same donor. Cell lines with between a 70% to 79% match require further profiling for authentication of relatedness. Cell lines with $< 70\%$ match are very unlikely to be from the same donor.

- The submitted sample profile is human, but not a match for any profile in the ExpASY STR database.
- The submitted profile is an exact match for the following human cell line(s) in the ExpASY STR database (13 core STR loci): MCF-7
- The submitted profile is similar to the following ExpASY human cell line(s):

e-Signature, Technician:

e-Signature, Reviewer:



Digitally signed by Xuekun Chen
DN: cn=Xuekun Chen, o=Genetic Testing
Biotechnology (Suzhou), ou=DNA Typing Section,
email=order@jsdna.org, c=CN
Date: 2024.01.24 16:29:51 +08'00'

Digitally signed by Xiankun Zhao
DN: cn=Xiankun Zhao, o=Genetic Testing
Biotechnology (Suzhou), ou=Supervision Section,
email=service@jsdna.org, c=CN
Date: 2024.01.24 16:30:24 +08'00'

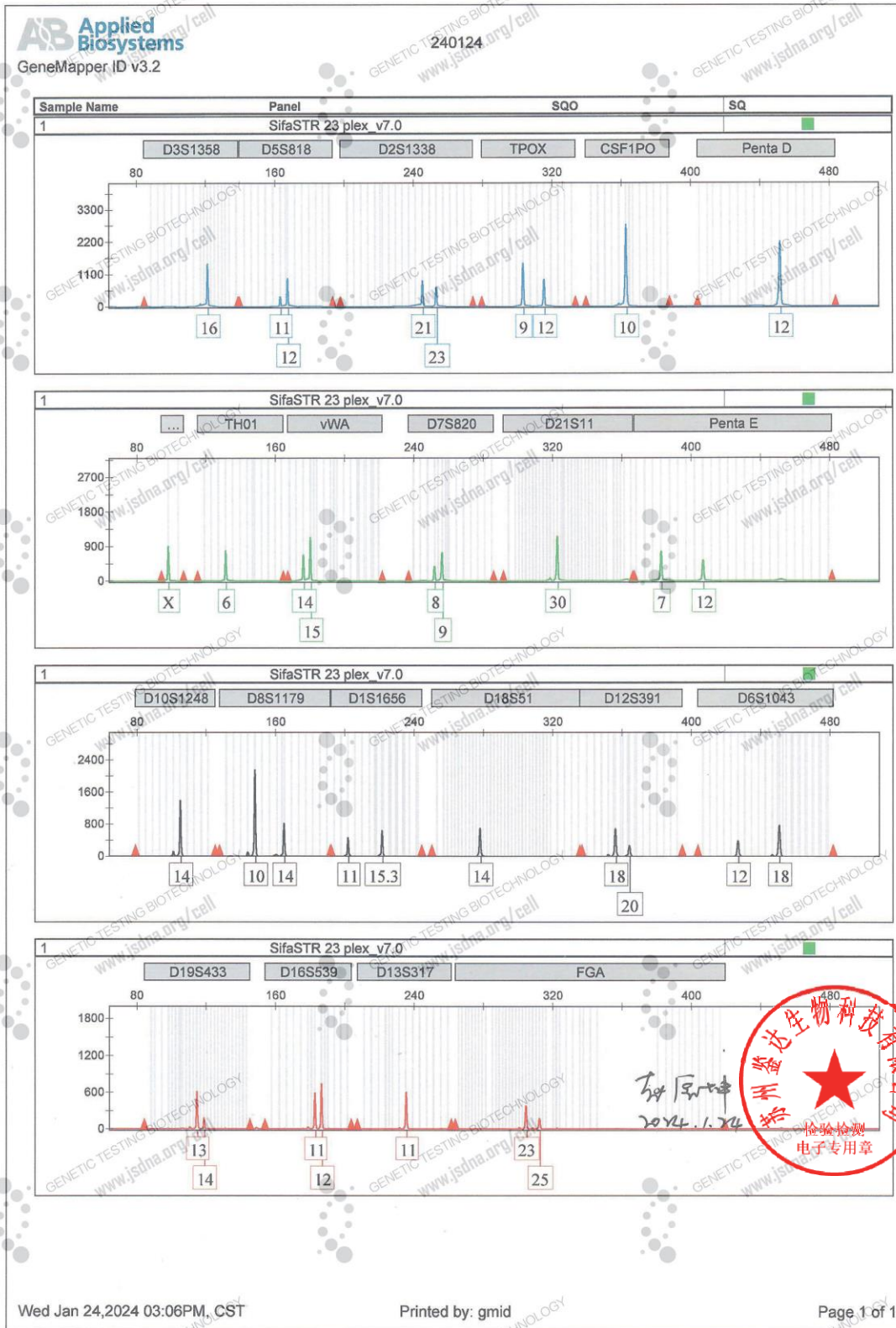


More information

Addendum: Electropherogram for the customer's sample set 1 of 1



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Typing map.



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Export table																					
Accession	Name	N° Markers	Score	Ameb	CSF1PO	D2S1338	D3S1358	D5S818	D7S820	D8S1179	D13S317	D16S539	D18S51	D19S433	D21S11	FGA	Penta D	Penta E	TH01	TPOX	vWA
NA	Query	NA	NA		10		16	11,12	8,9	10,14	11	11,12	14		30	23,25			6	9,12	14,15
CVCL_2094 B est	KPL-1	13	100.00%	X	10	21,23	16	11,12	8,9	10,14	11	11,12	14	13,14	30	23,25	12	7,12	6	9,12	14,15
CVCL_2094 W orst	KPL-1	13	97.56%	X	10	21,23	16	11,12	8,9	10,14	10,11	11,12	14	13,14	30	23,25	12	7,12	6	9,12	14,15
CVCL_0031 B est	MCF-7	13	100.00%	X	10	21,23	16	11,12	8,9	10,14	11	11,12	14	13,14	30	23,25	12	7,12	6	9,12	14,15
CVCL_0031 W orst	MCF-7	13	95.00%	X	10	21,23	16	12	8,9	10,14	11	11,12	14	13,14	30	23,24,25	12	7,12	6	9,12	14,15
CVCL_1D49	MCF-7/164R-4	13	100.00%	X	10		16	11,12	8,9	10,14	11	11,12	14		30	23,25	12	7,12	6	9,12	14,15
CVCL_1D39	MCF-7/164R-7	13	100.00%	X	10		16	11,12	8,9	10,14	11	11,12	14		30	23,25	12	7,12	6	9,12	14,15
CVCL_1D42	MCF-7/TAMR-4	13	100.00%	X	10		16	11,12	8,9	10,14	11	11,12	14		30	23,25	12	7,12	6	9,12	14,15
CVCL_1D43	MCF-7/TAMR-7	13	100.00%	X	10		16	11,12	8,9	10,14	11	11,12	14		30	23,25	12	7,12	6	9,12	14,15
CVCL_6860	MCF-7B	13	100.00%	X	10	21,23	16	11,12	8,9	10,14	11	11,12	14	13,14	30	23,25			6	9,12	14,15
CVCL_XD70	MCF7-Cas9-544	13	100.00%	X	10	21,23	16	11,12	8,9	10,14	11	11,12	14	13,14	30	23,25		7,12	6	9,12	14,15
CVCL_XD68	MCF7-Cas9-542	13	97.56%	X	10	21,23	16	11,12	8,9	10,14	11	11,12	14	13,14	30	23,24,25		7,12	6	9,12	14,15
CVCL_XD69	MCF7-Cas9-543	13	97.56%	X	10	21,23	16	11,12	8,9	10,14	11	11,12	14	13,14	30	23,24,25		7,12	6	9,12	14,15
CVCL_WS36	MCF-7/182R-6	13	97.44%	X	10		16	11,12	9	10,14	11	11,12	14		30	23,25	12	7,12	6	9,12	14,15
CVCL_5A09	MCF-7/AnaR-1	13	97.44%	X	10		16	11,12	9	10,14	11	11,12	14		30	23,25	12	7,12	6	9,12	14,15
CVCL_5A11	MCF-7/AnaR-3	13	97.44%	X	10		16	11,12	9	10,14	11	11,12	14		30	23,25	12	7,12	6	9,12	14,15
CVCL_5A12	MCF-7/AnaR-4	13	97.44%	X	10		16	11,12	9	10,14	11	11,12	14		30	23,25	12	7,12	6	9,12	14,15

Retrieval comparison chart.