



Cell Line Authentication Report

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Cell Line Authentication Report

Customer: Zhao tiantian

Institution: Beijing Anzhen Hospital

Quotation Number: 80-243880114

Completion Date: 1/22/2019

1. Sample ID: TBX5-KO

2. Original Material: Cell pellets

3. Methods:

1). Genomic DNA was extracted from the cell pellets provided by the customer.

2). Samples, together with positive and negative control were amplified using GenePrint 10 System (Promega).

3). Amplified products were processed using the ABI3730xl Genetic Analyzer.

4). Data were analyzed using GeneMapper4.0 software and then compared with the ATCC, DSMZ, JCRB and RIKEN databases for reference matching.

4. Results:

1) 10 Loci STR Profile:

Genetic Site (Locus)	Cell Bank information		Customer sample	
	H9		TBX5-KO	
Amelogenin	X	X	X	X
CSF1PO	11	11	11	11
D13S317	9	9	9	9
D16S539	12	13	12	13
D5S818	11	12	11	12
D7S820	9	11	9	11
THO1	9.3	9.3	9.3	9.3
TPOX	10	11	10	11
vWA	17	17	17	17
D21S11			30	30
Percent match between the sample and the database profile: 100%				

Summary:

Your cell line is considered to be “identical” to the reference cell line in the Cell Bank STR database, as the STR profile yields a 100% match.

Notes:

1. $P=100\% \times (2 \times M)/N$; $M=18$, $N=36$ $P=100\% \times (2 \times 18)/36=100\%$

M: number of the matching peaks; N: number of all peaks

2. Based on the ANSI Standard, cell lines with $\geq 80\%$ match are considered to be related; i.e., derived from a common ancestry. Cell lines with between a 55% to 80% match require further profiling for authentication of relatedness.

3. The short tandem repeat (STR) profile generated by GENEWIZ Inc. is indicative only of the sample sent to GENEWIZ Inc. at the time it was sent. This data and analysis are for research use only.

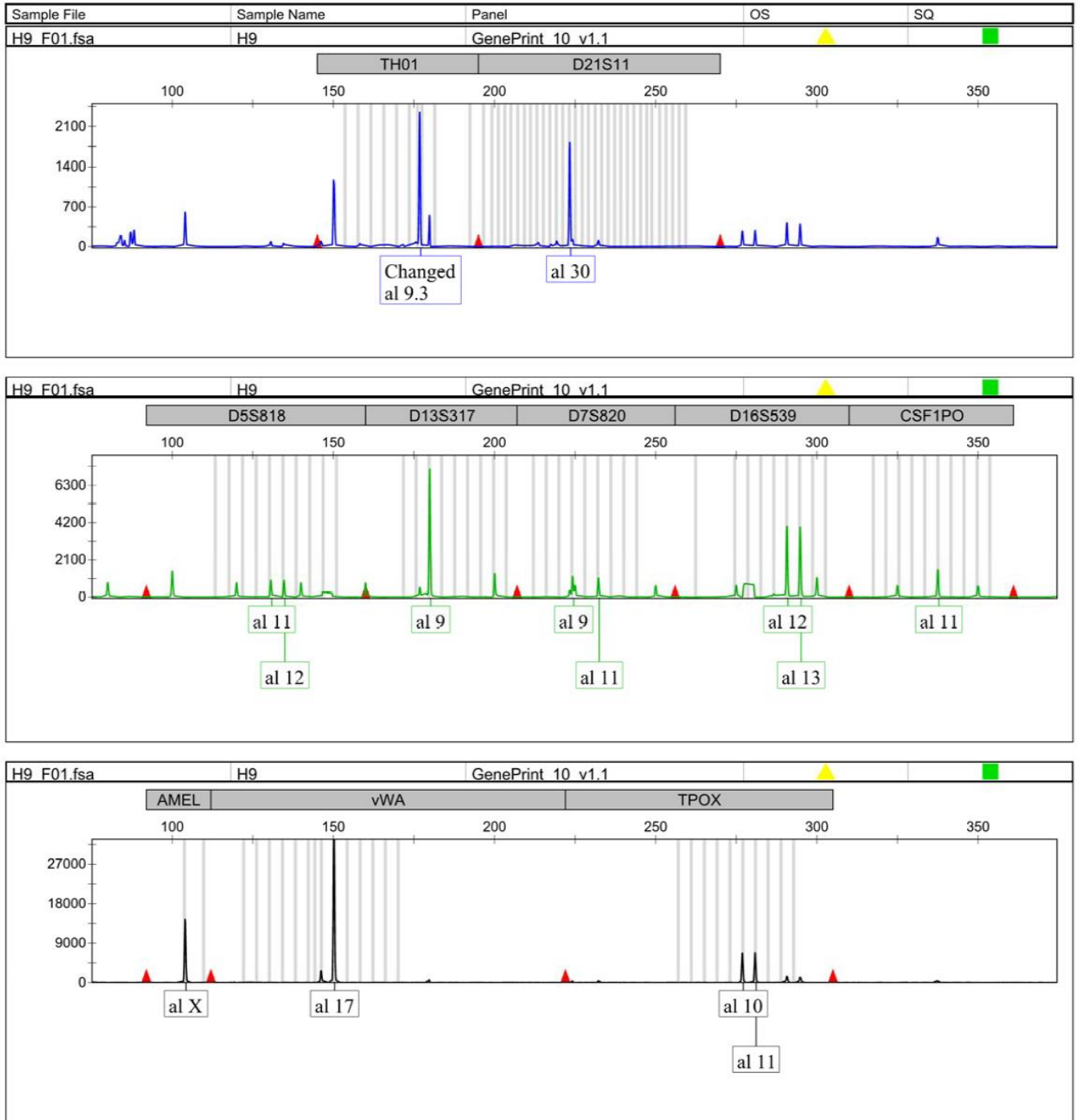
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2) Electrophoretogram

p

Applied Biosystems
GeneMapper 4.0

GENEWIZ-1



Note: Raw data in appendix