



上海艾博思生物科技有限公司

Shanghai Integrated Biotech Solutions Co.,Ltd

地址：上海浦东张江高科技园区紫薇路 750 弄 10 号 202 室

邮编：201203 电话：021-3877863 传真：021-38770863

E-mail:service@ibsbio.com http://www.ibsbio.com

Cell Line Authentication Report

Customer:

Institution:

Quotation Number: WR1608031

Completion Date: 08/11/2016

1. Sample ID: huh7

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 or JCRB databases for reference matching.

4. Results:

1) 10 Loci STR Profile:

Genetic Site	ATCC		Customer sample		
(Locus)	huh7		huh7		
Amelogenin	X		X		
CSF1PO	11		11	12	
D13S317	10		11	12	13
D16S539	10		9		14
D5S818	12		8		9
D7S820	11		10	11	12
TH01	7		7		9.3
TPOX	8	11	11		
vWA	16	18	16	19	21

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D21S11	30		28	29.2
Percent match between the sample and the database profile: 36.4%				

Summary:

- 1) Your cell linedid not match the reference cell line in the ATCC STR database,as the STR profile yields matches that are less than 80%.

Notes:

1. $P=100\% \times (2 \times M)/N$; $M=6$, $N=33$ $P=100\% \times (2 \times 6)/33=36.4\%$

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 futher 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.

<<<If the Percent match is not 100%, search for reference matchingwith the ATCC, DSMZ or JCRB databases and add the match results.

Addendum: Comparative output from the ATCC STR Profile database



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Result of STR matching analysis by your data.

- DSMZ Profile Database -

A graphical presentation is shown at the bottom of this page.

EV	Cell No.	Cell name	Locus names									Figures
			D5S818	D13S317	D7S820	D16S539	VWA	TH01	AM	TPOX	CSF1PO	
		Query (Your Cell)	8, 9	11, 12, 13	10, 11, 12	9, 14	16, 19, 21	7, 9, 3	X	11	11, 12	
0.92 (34/37)	305	293	8, 9	12, 14	11, 12	9, 9	16, 19	7, 9, 3	X, X	11, 11	11, 12	-
0.92 (34/37)	CRL-10852	293 c18	8, 9	12, 14	11, 12	9, 9	16, 19	7, 9, 3	X, X	11, 11	11, 12	-
0.92 (34/37)	CRL-11654	90, 74	8, 9	12, 14	11, 12	9, 9	16, 19	7, 9, 3	X, X	11, 11	11, 12	-
0.92 (34/37)	CRL-12007	ProPak-X. 36 [PP-X. 36]	8, 9	12, 14	11, 12	9, 9	16, 19	7, 9, 3	X, X	11, 11	11, 12	-
0.92 (34/37)	CRL-12013	2A	8, 9	12, 14	11, 11	9, 9	16, 19	7, 9, 3	X, X	11, 11	12, 12	-
0.92 (34/37)	CRL-12386	SODK1	8, 9	12, 14	11, 12	9, 9	16, 19	7, 9, 3	X, X	11, 11	11, 12	-
0.92 (34/37)	CRL-12479	ProPak-A. 52 Clone #52 [PP-A. 52]	8, 9	12, 14	11, 12	9, 9	16, 19	7, 9, 3	X, X	11, 11	11, 12	-
0.92 (34/37)	CRL-2828	PEAKrapid	8, 9	12, 14	11, 12	9, 9	16, 19	7, 9, 3	X, X	11, 11	11, 12	-
0.92 (34/37)	CRL-3022	HEK 293S GnTI-	8, 9	12, 14	11, 12	9, 9	16, 19	7, 9, 3	X, X	11, 11	11, 12	-
0.92 (34/37)	JCRB9068	293	8, 9	12, 12	11, 12	9, 13	16, 19	7, 9, 3	X, X	11, 11	11, 12	-
0.92 (34/37)	RCB2253	HEK20	8, 9	12, 12	11, 11	9, 13	16, 19	7, 9, 3	X, X	11, 11	11, 12	-
0.92 (34/37)	RCB2354	293gp	8, 9	12, 14	11, 12	9, 9	16, 19	7, 9, 3	X, X	11, 11	11, 12	-

>>>

2) Electrophoretogram

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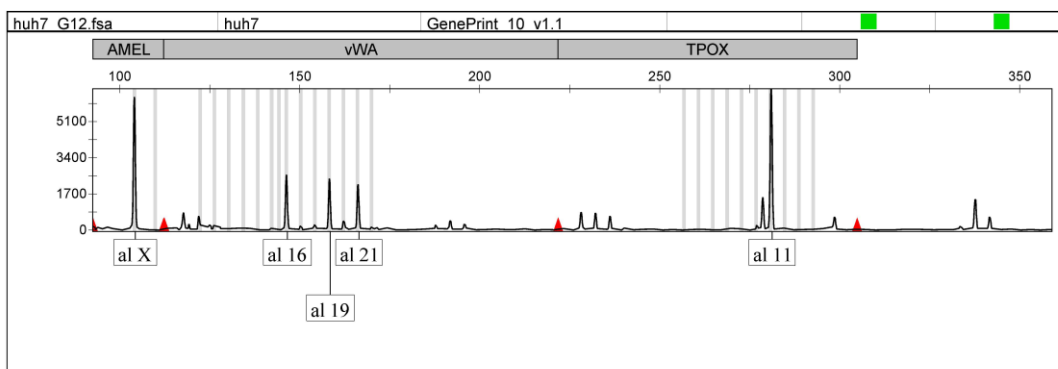
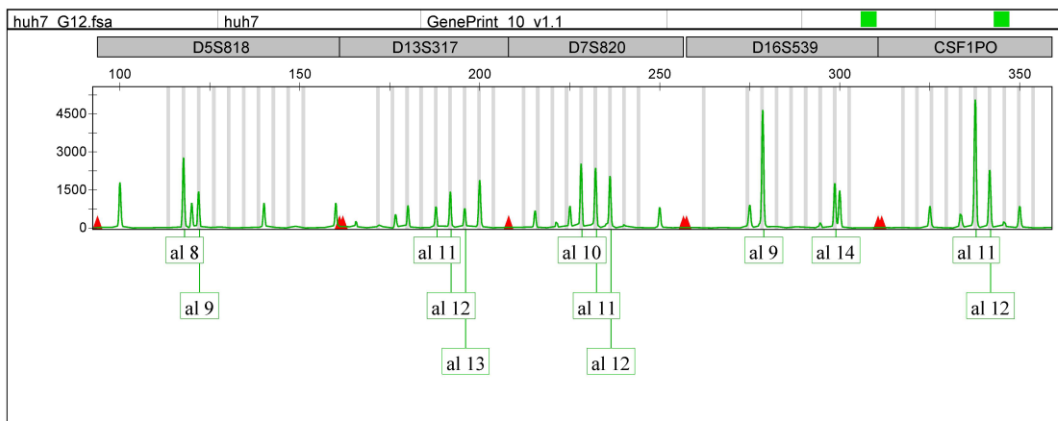
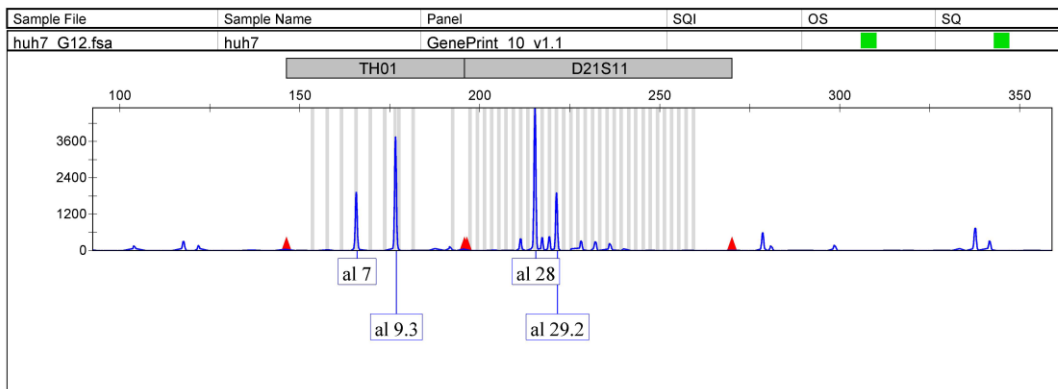
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AB Applied Biosystems
GeneMapper 4.0

M10128



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Note: Raw data in appendix

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