

细胞 STR 分型检验报告

Report of Cell Line Identification

单位/Applicant: 天津医科大学总医院
样本编号/ Sample No.: T238
待检测细胞系名称/Name of cell line: T238
样本数量及规格/ Sample Spec.: 细胞沉淀 1 个/ Cell precipitation
样本接收日期/ Sample Receive Date: 20230417
报告编号/ Report No.: VCPO20230413002STR02

1. 测试要求/Service Description

鉴定该细胞样品是否存在交叉污染现象, 并与数据库比对 DNA 分型数据确认来源。

Detection of human origin intra-species cross-contamination. Database search and analysis to identify cell origin of sample using recognized repository .

2. 检材处理和检验方法/Method and Procedure

取适量检材用莱枫痕量试剂盒提取 DNA, 采用人类 STR 扩增荧光检测试剂盒进行复合 PCR 扩增, 在 ABI 3730xl 型遗传分析仪上对 STR 位点和性别基因 Amelogenin 进行检测。

Cellular DNA is purified with lifefeng DNA kit. PCR is amplified with Human STR Identification Kit. PCR products are assayed with 3730xl DNA Analyzer (Applied Biosystems).

3. 检验结果/STR Profiles

该细胞株的 STR 位点和 Amelogenin 位点的基因分型结果见附表 1, 分型图谱见附图 1。

The STR profiles of the cell line sample are summarized in Table 1 and Figure 1.

4. 检验结论/Result & Analysis

样本编号/Sample No.T238

1) 用 GeneMapperID-X 1.4 software(ABI)对各 STR 位点进行基因型分析。该细胞 DNA 扩增后图谱清晰, 分型结果良好。

STR Typing profile is analyzed with GeneMapper ID-X 1.4 software (Applied Biosystems) (Table 1 and Figure 1).

2) 性别基因 Amelogenin: X。

3) 该株细胞 DNA 进行细胞 STR 分型结果显示 (如图 1), 未出现多等位基因。

Normal peaks distribution was observed (Figure 1).

4) 该株细胞 DNA 分型在 Expasy 数据库中找到与其细胞分型 94%匹配的细胞(T238, P/N: CVCL_6299, 图 2,3)。

94% matched cell line (T238, P/N: CVCL_6299) is found in Expasy data bank (Figure 2,3).

审核人/Reviewed by: 杨小丽/Xiaoli Yang



表 1: 样本 T238 的 STR 位点和 Amelogenin 位点的基因分型结果

Table 1: STR profiles of Sample

	Sample T238	Source: Expasy T238, 94% Match
Marker	Allele	Allele
D5S818	11	11
D13S317	12	12
D7S820	11,13	11,13
D16S539	11,12	11,12
VWA	16,17	16,17
TH01	7,9.3	7,9.3
AMEL	X	X
TPOX	8,11	8,11
CSF1PO	12	12,13
D12S391	18	
FGA	21	
D2S1338	24,25	
D21S11	30	
D18S51	10,17	
D8S1179	12	
D3S1358	16	
D6S1043	19	
PENTAE	8,11	
D19S433	14	
PENTAD	14	
D1S1656	12	

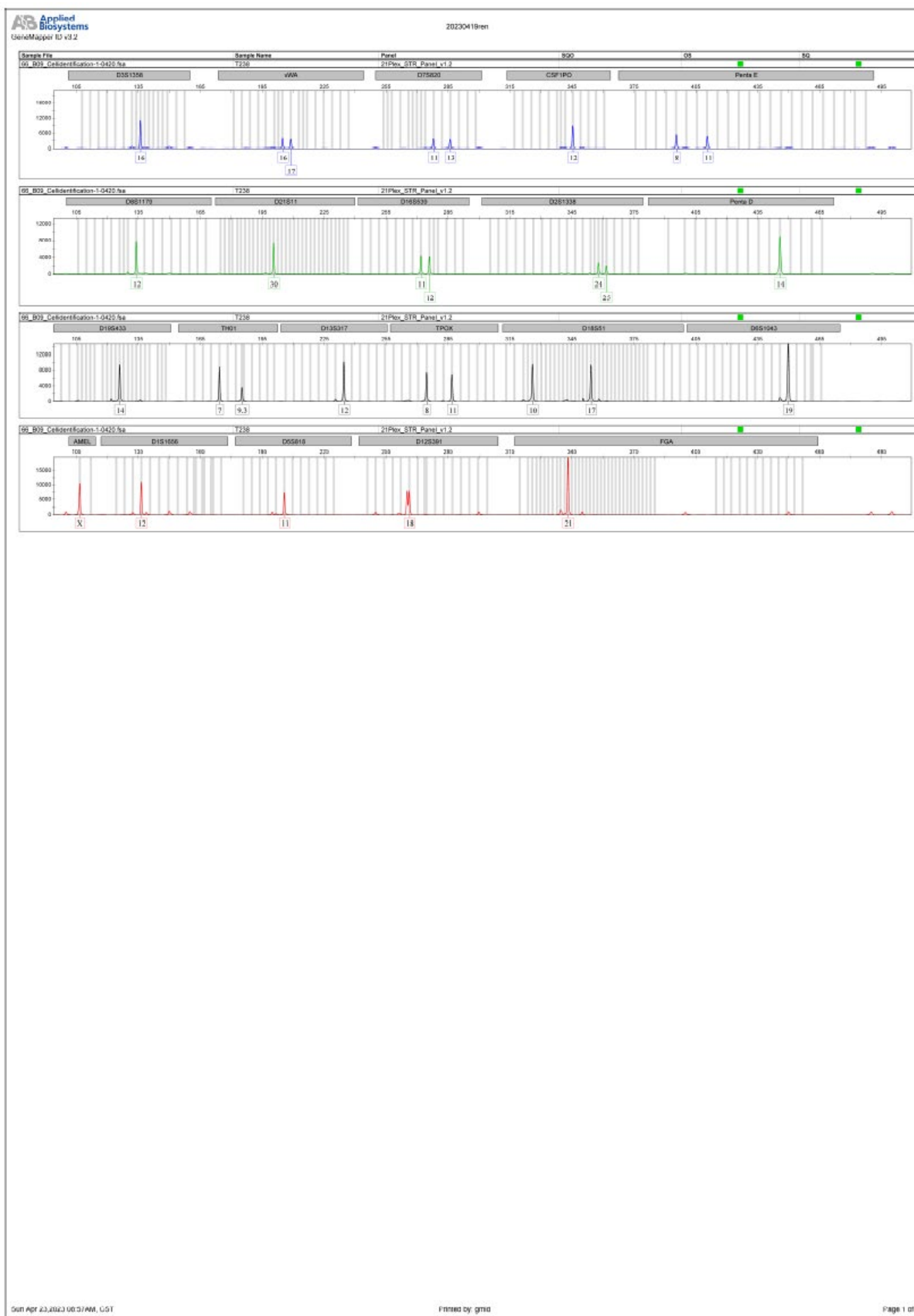


图 1/Figure 1: 样本 T238 的 STR 位点和 Amelogenin 位点的基因分型图 (STR profiles of Sample)

Similarity	Cell line	Source	Shared	D5S818	D7S820	D13S317	D16S539	vWA	TH01	TPOX	CSF1PO	Amelogenin
?		Your query		11, 11	11, 13	12, 12	11, 12	16, 17	7, 9.3	8, 11	12, 12	X, X
77.8 %	NCI-H1334	CRL-5863	9	11, 11	11, 11	12, 12	11, 12	17, 17	7, 7	8, 8	12, 12	X, X
77.8 %	JVE-D17	DSMZ: ACC-803	9	11, 11	10, 11	12, 12	11, 12	16, 18	9.3, 9.3	8, 11	11, 12	X, X
77.8 %	SIG-M5	DSMZ: ACC-468	9	11, 13	9, 11	11, 12	11, 12	17, 19	7, 9.3	8, 11	12, 12	X, X
72.2 %	S1	RCB1966	9	11, 11	8, 11	11, 12	12, 12	16, 16	7, 7	8, 11	12, 12	X, X
72.2 %	HCA	NIH50406	9	11, 11	10, 11	12, 12	11, 11	18, 18	7, 7	8, 11	12, 12	X, X
72.2 %	NCI-H322m	NCI-60 panel	9	11, 11	11, 11	12, 12	11, 12	17, 17	7, 7	8, 8	12, 12	X, Y
72.2 %	Calu-3	KCLB Korea 30055	9	11, 11	10, 11	12, 12	12, 14	16, 17	6, 9.3	8, 8	11, 12	X, X
72.2 %	HCA	JCRB1153	9	11, 11	10, 11	12, 12	11, 11	18, 18	7, 7	8, 11	12, 12	X, X
72.2 %	OUMS-23	JCRB1022	9	11, 11	10, 10	12, 12	11, 11	16, 16	7, 9.3	11, 11	12, 12	X, X
72.2 %	SW 1353 [SW 135...	HTB-94	9	10, 11	9, 11	12, 13	11, 12	16, 17	6, 9	8, 11	12, 12	X, X
72.2 %	RPMI-7951 [RPM...	HTB-66	9	11, 11	11, 12	11, 12	11, 12	17, 19	9, 9.3	8, 8	12, 12	X, X
72.2 %	Calu-3	HTB-55	9	11, 11	10, 11	12, 12	12, 14	16, 17	6, 9.3	8, 8	11, 12	X, X
72.2 %	SW 948	HPACC	9	11, 11	9, 11	10, 11	11, 12	16, 18	6, 9.3	8, 11	12, 12	X, X
72.2 %	BICR 78	ECACC	9	11, 11	10, 11	12, 12	11, 12	15, 16	6, 9.3	9, 10	12, 12	X, X
72.2 %	SH-4	CRL-7724	9	11, 12	13, 13	9, 12	11, 12	16, 17	8, 9.3	8, 11	11, 12	X, X
72.2 %	Hs 822.T	CRL-7556	9	11, 11	10, 11	12, 13	11, 13	16, 16	9, 9.3	8, 11	12, 12	X, X
72.2 %	NCI-H1648 [H16...	CRL-5882	9	11, 11	10, 11	12, 12	11, 11	14, 17	7, 9.3	8, 11	10, 12	X, Y
72.2 %	NCI-H322	CRL-5806	9	11, 11	11, 11	12, 12	11, 12	17, 17	7, 7	8, 8	12, 12	X, Y
72.2 %	NCI-H1299	CRL-5803	9	11, 11	10, 10	12, 12	12, 13	16, 17, 18	6, 9.3	8, 8	12, 12	X, X
72.2 %	IST-1	CRL-2734	9	11, 12	9, 10, 13, 14	8, 11, 12	10, 12, 13	16, 17, 18	7, 8, 9, 9.3	6, 8, 9, 11	10, 11, 12	X, X

图 2/ Figure 2: 样本 T238 与 DSMZ 数据对比分析图 (Sample Comparison to the DSMZ STR Profile Database)

Markers:

Amelogenin	X
CSF1PO	12,13
D3S1358	16
D5S818	11 (PubMed= 18713817 ; PubMed= 30737244) 9,11 (PubMed= 25365311)
D7S820	11,13
D8S1179	12
D13S317	12
D16S539	11,12
D18S51	10,17
D21S11	30
FGA	21,22
TH01	7,9.3
TPOX	8,11
vWA	16,17

图 3/ Figure 3: Expasy 数据库 T238 数据 (Expasy STR Profile Database)