Cell Line Authentication Service

STR Profiling Report

Sample From: Guangdong Provincial People's Hospital Sample Type: Cell Line Testing Method: STR Genotyping Report Time: 12/24/2021

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Cell Line Authentication – STR Profiling Report

Sample code

Table 1. Sample Code				
Customer's code	Company Code			
C33A	20211224-01			

Sample Number:1

Sample Type: Cell line

Testing Type: STR

Testing Method:

DNA was extracted by a commercial kit from CORNING (AP-EMN-BL-GDNA-250G). The twenty STRs including Amelogenin locus were amplified by six multiplex PCR and separated on ABI 3730XL Genetic Analyzer. The signals were then analyzed by the software GeneMapper.

Data Interpretation:

Cell lines were authenticated using Short Tandem Repeat (STR) analysis asdescribed in 2012 in ANSI Standard (ASN-0002) by the ATCC Standards Development Organization (SDO) and in Capes-Davis et al., Match criteria for human cell line authentication: Where do we draw the line? Int J Cancer.2013;132(11):2510-9.

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Test Results

1. STR profile

Table 2. STR and Amelogenin Genotyping Results of Cell line.
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	Sample information			Cell Bank information		
Loci	Sample nar	me : C33A		Cell line name : C33A		
	Allele1	Allele2	Allele3	Allele1	Allele2	Allele3
D5S818	11	12		11	12	
D13S317	13			13		
D7S820	10			10		
D16S539	13	14	-	13	14	
VWA	18	20		18	20	
TH01	7	8		7	8	
AMEL	Х	Х		Х	Х	
ΤΡΟΧ	9			9		
CSF1PO	12			12		
FGA	21	26				
Penta E	6	8				
Penta D	10					
D21S11	29	30	31			
D18S51	15	17	18			
D8S1179	10	14				
D3S1358	16					
D19S433	11	13	14			
D2S1338	23	25				

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2. database annotation

Figure 1. STR matching analysis

	0.00.4			gure 1. 5 TR matering analysis	
Cell line name	C-33 A				
Synonyms	C33A; C33a; C33-A; C-33-A; C-33A; C33				
Accession	CVCL_1094				
Resource Identification Initiative	To cite this cell line use: C-33 A (RRID:CVCL_1094)				
Comments	Part of: Cancer Dependency Map project (DepMap) (includes Cancer Cell Line Encyclopedia - CCLE). Part of: COSMIC cell lines project. Part of: PTEN genetic alteration cell panel (ATCC TCP-1030). Doubling time: 1.36 days (PubMed=29156801). Microsatellite instability: Instable (MSI-high) (PubMed=31068700; Sanger). Omics: Deep exome analysis. Omics: Dep RNAseq analysis. Omics: SNA methylation analysis. Omics: SNP array analysis. Omics: SNP array analysis. Omics: SNP array analysis.				
Sequence variations	Mutation; HGN (PubMed=1648		Simple; p.	Arg273Cys (c.817C>T); ClinVar=VCV000043594; Zygosity=Unspecified	
	Source: PubM	ed=30894373			
	Origin	% genome			
	African	0.41			
	Native America				
Genome ancestry	East Asian, No				
,	East Asian, No				
	South Asian	0.82			
	European, Nor				
	European, Sou				
Disease				nerwise specified (NCIt: C4028) eri (ORDO: Orphanet, 213767)	
Species of origin	Squamous cell carcinoma of the cervix uteri (ORDO: Orphanet_213767) Homo sapiens (Human) (NCBI Taxonomy: 9606)				
Species of origin	Homo sapiens (Human) (NCBI Taxonomy: 9606)				
Sex of cell	Female				
Age at sampling	66Y				
Category	Cancer cell line				
			CCRID: Co	smic-CLP; DepMap; PubMed=25877200	
			,		
	Markers:	,		1	
	Amelogenin X				
	CSF1PO 1				
		3,25			
		6			
		1,12			
		1			
STR profile	D10051 1	3,14 5,17,18 (DepMa	ap)		
	1	5,18 (PubMed=	25877200)		
		1 1			
		9,30,31			
		1,26			
		0			
		,8			
		,8			
	TPOX 9				
	vWA 1	8,20			
	Run an STR s	imilarity searcl	n on this c	ell line	

Note: The STR online match analysis of the test cell against EXPASY database, showing cell number (Cell No.) and cell name.

3. Authentication

The submitted sample profile is human, but not a match for any profile in the DSMZ STR database.

The submitted profile is an exact match for the following human cell line(s) in the EXPASY STR database (8 core loci plus Amelogenin) C33A.

The submitted profile is similar to the following DSMZ human cell line: /.

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• Note: A cell line can be considered to be authenticated when 80% (exact match) of the alleles in its STR profile match profiles from tissue or other cell line samples from that donor or from database. Cell lines with between a 55% to 80% (similar) match require further profiling for investigation of relatedness.

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Appendix:

1. Genotyping Strategy and Site Distribution

Table S1. Experimental Strategy and Sites

	Strategy 1	Strategy 2	Strategy 3	Strategy 4
1	D3S1358	D8S1179	D19S433	AMEL
2	VWA	D21S11	TH01	D1S1656
3	D7S820	D16S539	D13S317	D5S818
4	CSF1PO	D2S1338	TPOX	D12S391
5	PENTAE	PENTAD	D18S51	FGA
6			D6S1043	

The allele match algorithm compares the 8 core loci plus amelogenin only, even though alleles from all lociwill be reported when available.

2. DSMZ tools was used to carry on the cell line comparison, which contains 2455 cell lines STR data from ATCC, DSMZ, JCRB ,ECACC, GNE and RIKEN databases. If the cell is not

included in the above cell library, users need to compared with other databases.

Technician: Jianan Zhang Checked by: Ning Qian Issued by: Yang Bai Issue date: 12/24/2021