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					
SiHa	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

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Table 2. STR and Amelogenin Ge	enotyping Results of Cell line.
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Sample information		Cell Bank information				
Loci	Sample name : SiHa		Cell line name : SiHa			
	Allele1	Allele2	Allele3	Allele1	Allele2	Allele3
D5S818	9			9		
D13S317	11			11		
D7S820	10			10		
D16S539	12			12		
VWA	14	17		14	17	
TH01	6	9		6	9	
AMEL	Х			Х		
TPOX	8			8		
CSF1PO	12			12		
FGA	21					
Penta E	10	12				
Penta D	9	12				
D21S11	29	31				
D18S51	15					
D8S1179	13	16				
D3S1358	16	17				
D19S433	14. 2					
D2S1338	24		-			

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2. database annotation

Figure 1. STR matching analysis

Sex of cell Female Age at sampling 55Y Category Cancer cell line Source(s): AddexBio; ATCC; CCRID; Cosmic-CLP; KCLB; PubMed=25877200; PubMed=29156801 Markers: Amelogenin X CSF1PO D2S1338 24 D3S1358 D3S1358 16,17 D5S818 D75820 0 D75820 10 D8S1179 13,16 D13S317 D165539 12 (AddexBio; ATCC; CCRID; Cosmic-CLP; KCLB; PubMed=25877200) D18551 D19S433 14.2 D21S11 29,31 FGA Penta D 9,12 Penta E Penta E 10,12 TH01 6,9 TBOX 8 (AddexBio; ATCC; CCRID; Cosmic-CLP; KCLB; PubMed=25877200)	Cell line name	SiHa			
Resource Identification Description To cle this cell line use: SiHa (RRID.CVCL_0032) Part of: Cancer Dependency Map project (DepMap) (includes Cancer Cell Line Encyclopedia - CCLE). Part of: Cancer Dependency Map project. Population: Jageness Characteristics: Contains a complete HFV16 genome with a disruption of the E2 region and a small deletion. Doubling time : 26 days (PubMder-29158801) Microsatellite instability: Stable (MSS) (Sanger) Transformatin: NCBI_Tabu(SS) (Sanger) Transformatin: NCBI_Tabu(SS) (Sanger) Microsatellite instability: Stable (MSS) (Sanger) Microsatellite	Synonyms	Siha; SIHA			
Identification Initiative To cite this cell line use: SiHa (RRID:CVCL_0032) Part of Concer Dependency Map project (DepMap) (includes Cancer Cell Line Encyclopedia - CCLE). Part of COSMIC cell lines project. Population: Japanese Characteristics: Contains a complete IPV16 genome with a disruption of the E2 region and a small deletion. Doubling time: 2.6 days (PubMed=29156801) Microssettle instability: Stable (MSS) (Sanger). Transformant: NCBL TaxID: 333760, Human papillomavirus type 16 (HPV16). Omics CMV analysis. Omics Deep extone analysis. Omics Deep extone analysis. Omics Deep extone analysis. Omics SPR methylation analysis. Omics SPR array analysis. Omics SPR methylation analysis. Omics SPR array analysis. Species of origin Homo sapiens (Human) (NCBI Taxonomy. 9806) Sex of cell Female Age at sampling 55Y Category Cancer cell line Source(s): AddexBio, ATCC; CCRID, Cosmic-CLP, KCLB; PubMed=25877200; PubMed=29156801 Markers: Amalogenin X CSFIPO 12 D251338 D75820 10 D858179 13.16 D135317 11 D195831 14.2 D195833 14.2	Accession	CVCL_0032	2		
STR profile Female Amelogenin X Category Category Cancer cell line STR profile Page 135/12 STR profile D125/1328 101 0.53176 102 0.12 103 0.12 104 0.12 105 0.12 106 0.12 107 0.12 108 0.12 109 0.12 100 0.12 100 0.12 101 0.12 101 0.12 101 0.12 101 0.12 102 0.12 103 0.12 104 0.12 105 0.12 105 0.12 105 0.12 105 0.12 105 0.12 105 0.12 105 0.12 105 0.12 105 0.12 105 0.12 105 0.12	Identification				
Sex of cell Female Age at sampling 55Y Category Cancer cell line Source(s): AddexBio; ATCC; CCRID; Cosmic-CLP; KCLB; PubMed=25877200; PubMed=29156801 Markers: Amelogenin X CSF1PO D2S1338 24 D3S1358 16,17 D5S818 D7S820 10 D8S1179 13,16 D13S317 D16S539 12 (AddexBio; ATCC; CCRID; Cosmic-CLP; KCLB; PubMed=25877200) D18S51 15 D19S433 14.2 D21S11 29,31 FGA Penta D 9,12 Penta E 10,12 TH01 6,9 TBOY 8 (AddexBio; ATCC; CCRID; Cosmic-CLP; KCLB; PubMed=25877200)	Comments	Part of: COS Population: Characterist Doubling tim Microsatellit Transformar Omics: CNe Omics: Dee Omics: Dee Omics: DPA Omics: SNP Omics: Tran	SMIC cell lines project. Japanese. iics: Contains a complete HPV16 genome with a disruption of the E2 region te: 2.6 days (PubMed=29156801). e instability: Stable (MSS) (Sanger). nt: NCBL_TaxID; 333760; Human papillomavirus type 16 (HPV16). / analysis. p antibody staining analysis. p exome analysis. p RNAseq analysis. to methylation analysis. ein expression by reverse-phase protein arrays. ? array analysis. scriptome analysis.	. ,	
Age at sampling 55Y Category Cancer cell line Source(s): AddexBio; ATCC; CCRID; Cosmic-CLP; KCLB; PubMed=25877200; PubMed=29156801 Markers: Amelogenin Amelogenin X CSF1PO 12 D2S1338 24 D3S1358 16,17 D5S818 9 D7R820 10 D8S1179 13,16 D13S317 11 D16S539 8,12 (PubMed=29156801) 12 (AddexBio; ATCC; CCRID; Cosmic-CLP; KCLB; PubMed=25877200) D18S51 15 D19S433 14.2 D21S11 29,31 FGA 21 Penta 0,12 Penta 10,12 TH01 6,9 TEOX 8 (AddexBio; ATCC; CCRID; Cosmic-CLP; KCLB; PubMed=25877200)	Species of origin				
Category Cancer cell line Source(s): AddexBio; ATCC; CCRID; Cosmic-CLP; KCLB; PubMed=25877200; PubMed=29156801 Markers: Amelogenin X CSF1PO D2S1338 24 D3S1358 D3S1358 16,17 D5S818 9 D7S820 10 D8S1179 13,16 D13S317 D18S51 D19S539 8,12 (PubMed=29156801) 12 (AddexBio; ATCC; CCRID; Cosmic-CLP; KCLB; PubMed=25877200) D18S51 D19S433 14.2 D21S11 29,31 FGA Penta D Penta D 9,12 Penta E 10,12 TH01 6,9 TPOX 8 (AddexBio; ATCC; CCRID; Cosmic-CLP; KCLB; PubMed=25877200)	Sex of cell	Female			
Source(s): AddexBio; ATCC; CCRID; Cosmic-CLP; KCLB; PubMed=25877200; PubMed=29156801 Markers: Amelogenin X CSF1PO D2S1338 24 D3S1358 16,17 D5S818 9 D7S820 10 D8S1179 13,16 D13S317 D18S51 15 D19S433 14.2 D21S11 29,31 FGA Penta D 9,12 Penta E 10,12 TH01 6,9 TPOX	Age at sampling	55Y			
Markers: Amelogenin X CSF1PO 12 D2S1338 24 D3S1358 16,17 D5S818 9 D7S820 10 D8S1179 13,16 D13S317 11 D16S539 8,12 (PubMed=29156801) 12 (AddexBio; ATCC; CCRID; Cosmic-CLP; KCLB; PubMed=25877200) D18S51 15 D19S433 14.2 D21S11 29,31 FGA 21 Penta D 9,12 Penta E 10,12 TH01 6,9 TD0X 8 (AddexBio; ATCC; CCRID; Cosmic-CLP; KCLB; PubMed=25877200)	Category	Cancer cell line			
STR profile 12 (AddexBio; ATCC; CCRID; Cosmic-CLP; KCLB; PubMed=25877200) D18S51 15 D19S433 14.2 D21S11 29,31 FGA 21 Penta D 9,12 Penta E 10,12 TH01 6,9 TPOX 8 (AddexBio; ATCC; CCRID; Cosmic-CLP; KCLB; PubMed=25877200)		CSF1PO D2S1338 D3S1358 D5S818 D7S820 D8S1179 D13S317	12 24 16,17 9 10 13,16 11		
D21S11 29,31 FGA 21 Penta D 9,12 Penta E 10,12 TH01 6,9 TPOX 8 (AddexBio; ATCC; CCRID; Cosmic-CLP; KCLB; PubMed=25877200)	STR profile	D18S51	15		
FGA 21 Penta D 9,12 Penta E 10,12 TH01 6,9 TPOX 8 (AddexBio; ATCC; CCRID; Cosmic-CLP; KCLB; PubMed=25877200)					
Penta D 9,12 Penta E 10,12 TH01 6,9 TPOX 8 (AddexBio; ATCC; CCRID; Cosmic-CLP; KCLB; PubMed=25877200)					
Penta E 10,12 TH01 6,9 TPOX 8 (AddexBio; ATCC; CCRID; Cosmic-CLP; KCLB; PubMed=25877200)					
TH01 6,9 TPOX 8 (AddexBio; ATCC; CCRID; Cosmic-CLP; KCLB; PubMed=25877200)					
TPOX 8 (AddexBio; ATCC; CCRID; Cosmic-CLP; KCLB; PubMed=25877200)					
8,9 (PubMed=29156801)		TH01 TPOX	8 (AddexBio; ATCC; CCRID; Cosmic-CLP; KCLB; PubMed=25877200)		
vWA 14.17		VWA			

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

3. Authentication

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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) SiHa .

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

Note: A cell line can be considered to be authenticated when 80% (exact match) of the

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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