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

Add: Room 502, NO.2 Zhongxing Creative Park, Lane 1015, LongtengRoad, Songjiang District, Shanghai/ Tel:+86-021-33559493
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Sample code

Table 1. Sample Code

Customer's code	Company Code
Ect1/E6E7	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

Loci	Sample information			Cell Bank information		
	Sample name: Ect1/E6E7			Cell line name: Ect1/E6E7		
	Allele1	**Allele2**	**Allele3**	**Allele1**	**Allele2**	**Allele3**
D5S818	11	12		11	12	
D13S317	12			12		
D7S820	10			10		
D16S539	10	13		10	13	
VWA	16	17		16	17	
TH01	6	10		6	10	
AMEL	X			X		
TPOX	8	11		8	11	
CSF1PO	11	12		11	12	

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2. database annotation

Figure 1. STR matching analysis

Cell line name	Ect1/E6E7
Synonyms	ECT1/E6E7; Ect1
Accession	CVCL_3679
Resource Identification Initiative	To cite this cell line use: Ect1/E6E7 (RRID:CVCL_3679)
Comments	Transfected with: UniProtKB; P03126; Human papillomavirus type 16 protein E6. Transfected with: UniProtKB; P03129; Human papillomavirus type 16 protein E7. Transfected with: UniProtKB; P00552; Transposon Tn5 neo. Transformant: NCBI_TaxID; 333760; Human papillomavirus type 16 (HPV16) [pLXSN16E6E7].
Species of origin	Homo sapiens (Human) (NCBI Taxonomy: 9606)
Originate from same individual	CVCL_3684 ! End1/E6E7
Sex of cell	Female
Age at sampling	43Y
Category	Transformed cell line
STR profile	**Source(s):** ATCC **Markers:** Amelogenin X CSF1PO 11,12 D5S818 11,12 D7S820 10 D13S317 12 D16S539 10,13 TH01 6,10 TPOX 8,11 vWA 16,17 **Run an STR similarity search on this cell 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) **Ect1/E6E7** .

☐ 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 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.

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Issued by: Yang Bai

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