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 | | | |
| ME-180 | 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

| | · · · | | Cell Bank information Cell line name : ME-180 | | | |
|---------|---------|---------|--|---------|---------|---------|
| Loci | | | | | | |
| | Allele1 | Allele2 | Allele3 | Allele1 | Allele2 | Allele3 |
| D5S818 | 12 | | | 12 | | |
| D13S317 | 11 | 13 | | 11 | 13 | |
| D7S820 | 9 | 10 | | 9 | 10 | |
| D16S539 | 12 | 13 | | 12 | 13 | |
| VWA | 15 | 17 | | 15 | 17 | |
| TH01 | 8 | 9.3 | | 8 | 9.3 | |
| AMEL | Х | | | Х | | |
| ΤΡΟΧ | 8 | 10 | | 8 | 10 | |
| CSF1PO | 11 | | | 11 | | |
| FGA | 23 | | | | | |
| Penta E | 12 | 14 | | | | |
| Penta D | 9 | 14 | | | | |
| D21S11 | 30 | 31 | | | | |
| D18S51 | 12 | | | | | |
| D8S1179 | 14 | | | | | |
| D3S1358 | 16 | | | | | |
| D19S433 | 13 | 15.2 | | | | |
| D2S1338 | 18 | | - | | | |

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2. database annotation

| Figure | 1. | STR | matching | analysis |
|--------|----|-----|----------|-----------|
| Inguio | т. | DIK | matering | unui yono |

| Synonyms Me:180; ME:180; ME:180 Accession CVCL_1401 Resource Identification Initiative To cite this cell line use: ME:180 (RRID CVCL_1401) Part of: CoSMIC cell lines project. Part of: CoSMIC cell lines project. Part of: CoSMIC cell lines complete HPV68 genome. Doubling time: 1,5 days (PubMed=29156801). Microsatellite instability: Stable (MSS) (Sanger). Transformati: KOEI Taxib, 45240, Human papillomavirus type 68 (HPV68). Omics: Deep proteome analysis. Omics: Deep proteome analysis. Omics: Doep proteome analysis. Omics: DNA methylation analysis. Omics: SNP array analysis. Omics: Transcriptome analysis. Omics: Transcriptome analysis. Omics: Transcriptome analysis. Species of origin Homo sapiens (Human) (NCBI Taxonomy. 9606) Sex of cell Female Age at sampling GV Category Cancer cell line Source(s): ATCC, CCRID, Cosmic-CLP; JCRB; KCLB; PubMed=22710073; PubMed=25877200; PubMed=29156801; RCB; T Markers: Amelogenin X CCSFIPO Diss138 18 Diss138 12 Diss138 12 Diss138 12 Diss138 12 Diss138 12 Diss138 12 < |
|---|
| Resource Identification Initiative |
| Identification Initiative To cite this cell line use: ME-180 (RRID:CVCL_1401) Part of: Cancer Dependency Map project (DepMap) (includes Cancer Cell Line Encyclopedia - CCLE). Part of: CAval Biosciences Laboratory (NBL) collection (transferred to ATCC in 1982). Characteristics: Contains a complete HPV68 genome. Doubling time: 1.5 days (PubMed=29156801). Microsatellite instability: Stable (MSS) (Sanger). Transformati. NCBL TaxID, 45240, Human papillomavirus type 68 (HPV68). Omics: Deep proteome analysis. Omics: SNP array analysis. Omics: SNP array analysis. Omics: SNP array analysis. Omics: STP for in expression by reverse-phase protein arrays. Omics: SNP array analysis. Omics: Transcriptome analysis. Omics: Transcriptome analysis. Omics: Transcriptome analysis. Omics: Transcriptome analysis. Omics: Category Species of origin Homo sapiens (Human) (NCBI Taxonomy: 9606) Sex of cell Female Age at sampling 66Y Category Cancer cell line Source(s): ATCC; CCRID; Cosmic-CLP; JCRB; KCLB; PubMed=22710073; PubMed=25877200; PubMed=29156801; RCB; T Markers: Amelogenin X CSF1PO 11 D251338 16 D55818 12 D75820 9,10 D851179 14 D155317 14 |
| Part of: COSMIC cell lines project. Comments Species of origin Homo sapiens (Human) (NCBI Taxonomy: 9606) Sex of cell Female |
| Sex of cell Female Age at sampling 66Y Category Cancer cell line Source(s): ATCC; CCRID; Cosmic-CLP; JCRB; KCLB; PubMed=22710073; PubMed=25877200; PubMed=29156801; RCB; T Markers: Amelogenin X CSF1PO 11 D2S1338 18 D3S1358 16 D5S818 12 D7S820 9,10 D8S1179 14 D13S347 11,12 (PubMed=22710073) |
| Age at sampling 66Y Category Cancer cell line Source(s): ATCC; CCRID; Cosmic-CLP; JCRB; KCLB; PubMed=22710073; PubMed=25877200; PubMed=29156801; RCB; T Markers: Amelogenin X CSF1PO 11 D2S1338 18 D3S1358 16 D5S818 12 D7S820 9,10 D8S1179 14 D13S347 11,12 (PubMed=22710073) |
| Category Cancer cell line Source(s): ATCC; CCRID; Cosmic-CLP; JCRB; KCLB; PubMed=22710073; PubMed=25877200; PubMed=29156801; RCB; T Markers: Amelogenin X CSF1PO D2S1338 18 D3S1358 16 D5S818 12 D7S820 9,10 D8S1179 14 D13S317 11,12 (PubMed=22710073) |
| Source(s): ATCC; CCRID; Cosmic-CLP; JCRB; KCLB; PubMed=22710073; PubMed=25877200; PubMed=29156801; RCB; T Markers: Amelogenin X CSF1PO D2S1338 18 D3S1358 16 D5S818 12 D7S820 9,10 D8S1179 14 D13S347 11,12 (PubMed=22710073) |
| Markers: Amelogenin X CSF1PO 11 D2S1338 18 D3S1358 16 D5S818 12 D7S820 9,10 D8S1179 14 D13S317 11,12 (PubMed=22710073) |
| STR profile D16S539 12,13 D18S51 12 D19S433 13,15.2 D21S11 30,31 FGA 23 Penta D 9,14 Penta E 12,14 TH01 8 (RCB) 8,9.3 (ATCC; CCRID; Cosmic-CLP; JCRB; KCLB; PubMed=22710073; PubMed=25877200; PubMed=29156801 TKG) TPOX 8,10 UWA 15,16,17 (JCRB) 15,17 (ATCC; CCRID; Cosmic-CLP; KCLB; PubMed=22710073; PubMed=25877200; PubMed=29156801; RCB; TKG) |

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) **ME-180**.

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