Cell Line Authentication Service

STR Profiling Report

Sample Code: HCC4006Sample Type: Cell LineTesting Method: STR GenotypingReport Time: April 15, 2021

COMPANY STATEMENT

- 1. THIS REPORT IS ONLY RESPONSIBLE FOR THE SAMPLES ANALYZED.
- 2. THE TESTING RESULTS AND THE ORGANIZATION NAME WILL NOT BE USED FOR ADVERTISEMENT, COMMERCIAL EXHIBITIONS, COMMERCIAL PERFORMANCE AND OTHER COMMERCIAL ACTIVITIES.
- 3. OBJECTIONS SHOULD BE RAISED WITHIN FIFTEEN DAYS AFTER THE RECEIPT OF THIS REPORT.
- 4. THE PAPER REPORT WITH CONTENT ALTERING, ADDING ARE INVALID.

Testing Company: Shanghai Biowing Applied Biotechnology Co. Ltd Address: Room 502, NO.1015 Longteng Rd , Songjiang District, Shanghai Tel: +86-021-33559491 Contact: Wenyao Zhang E-mail: market@biowing.com.cn

Cell Line Authentication – STR Profiling Report

Sample code

Table 1. Sample Code				
Customer's code	Company Code			
HCC4006	20210410-01			

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.

Test Results

1. STR profile

	Sample information		Cell Bank information			
Loci	Sample name: HCC4006		Cell line name: HCC4006			
	Allele1	Allele2	Allele3	Allele1	Allele2	Allele3
D5S818	12	12		12	12	
D13S317	11	12		11	12	
D7S820	9	12		9	12	
D16S539	11	12		11	12	
VWA	16	17		16	17	
TH01	7	7		7	7	
AMEL	Х	Х		Х	Х	
TPOX	8	9		8	9	
CSF1PO	10	10		10	10	
D12S391	21	22				
FGA	21	22	23			
D2S1338	17	24				
D21S11	31	31				
D18S51	15	19				
D8S1179	10	14				
D3S1358	16	18				
D6S1043	17	17				
PENTAE	7	13				
D19S433	12	13				
PENTAD	9	14				

Table 2. STR and Amelogenin Genotyping Results of Cell line.

SHANGHAI BIOWING BIOTECHNOLOGY Co. LTD *Your Intimate Partner in Bioscience!*

2. database annotation

Call No	Cell No.	Cell name	Locus names								
EV			D5S818	D13S317	D7S820	D16S539	VWA	TH01	AM	трох	CSF1PO
	Query (Your Cell)		12,12	11,12	<i>9,12</i>	11,12	16,17	7,7	<i>X,X</i>	8,9	10,10
1.00(36/36)	CRL-2871	HCC4006	12,12	11,12	9,12	11,12	16,17	7,7	X,X	8,9	10,10

Figure 1.	STR	matching	analysis
1 15010 11	~	matering	analysis

Note: The STR online match analysis of the test cell against DSMZ 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 exact match for the following human cell line(s) in the DSMZ STR database (8 core loci plus Amelogenin): **HCC4006**.
 - 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.

SHANGHAI BIOWING BIOTECHNOLOGY Co. LTD Your Intimate Partner in Bioscience!

Appendix

1. Genotyping Strategy and Site Distribution

Tuble 51. Experimental Strategy and Stees					
	Strategy 1	Strategy 2	Strategy 3	Strategy 4	
1	D3S1358	D8S1179	D19S433	AMEL	
2	VWA	D21S11	TH01	D6S1043	
3	D7S820	D16S539	D13S317	D5S818	
4	CSF1PO	D2S1338	TPOX	D12S391	
5	PENTAE	PENTAD	D18S51	FGA	

Table S1. Experimental Strategy and Sites

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.

