

Data S2. STR profile report for the MDA-MB-231 cell line.

Cell Line Authentication Service

***MDA-MB-231* STR Profile Report**

Methodology:

Twenty short tandem repeat (STR) loci plus the gender determining locus, Amelogenin, were amplified using a commercially available STR profiling Kit. The cell line sample was processed using the ABI Prism® 3500XL Genetic Analyzer. Data were analyzed using GeneMapper® 5 software (Applied Biosystems). Appropriate positive and negative controls were run and confirmed for each sample submitted.

Data Interpretation:

Cell lines were authenticated using Short Tandem Repeat (STR) analysis as described in 2012 in ANSI Standard (ANSI/ATCC ASN-0002-2011 *Authentication of Human Cell Lines: Standardization of STR Profiling*) by the ATCC Standards Development Organization (SDO).

Test Results of Submitted Sample:

MDA-MB-231 (PC03)		
Marker	Allele 1	Allele 2
D3S1358	16	16
TH01	7	9.3
D21S11	33.2	33.2
D18S51	11	16
Penta E	11	11
D5S818	12	12
D13S317	13	13
D7S820	8	9
D16S539	12	12
CSF1PO	12	13
Penta D	11	14
AMEL	X	X
Vwa	15	18
D8S1179	13	13
TPOX	8	9
FGA	22	23

NOTE:

- I. Loci highlighted in grey (8 core STR loci plus Amelogenin) can be made public to verify cell identity. In order to protect the identity of the donor, Please do not publish the allele calls from the STR loci tested.
- II. A relatively common occurrence of STR typing of human cancer cell lines is multiple Alleles at several loci. Three or more Alleles at one or two loci may be due to somatic mutation, trisomy or gene duplications. Events with more than three Alleles at more than three loci may be due to cellular contamination.
- III. Electropherograms showing raw data and Map are attached.

Result of searching against STR Profile Database:

Matches:													
NO.	Percent Match	Cell No.	Cell name	D5S818	D13S317	D7S820	D16S539	vWA	TH01	AM	TPOX	CSF1PO	Matched/Total
			Query(Your Cell)	12,12	13,13	8,9	12,12	15,18	7,9.3	X,X	8,9	12,13	
1	100%		MDA-MB-231	12,12	13,13	8,9	12,12	15,18	7,9.3	X,X	8,9	12,13	28/28
2	100%	COG0472	HTB-26	12,12	13,13	8,9	12,12	15,18	7,9.3	X,X	8,9	12,13	28/28
3	100%	CRC132	MDA-MB-231-b2	12,12	13,13	8,9	12,12	15,18	7,9.3	X,X	8,9	12,13	28/28
4	92%	HTL99004	MDA-MB-231	12,12	13,13	8,8	12,12	15,15	7,9.3	X,X	8,9	12,13	24/26

Explanation of Test Results:

Cell lines with $\geq 80\%$ match are considered to be related, i.e., derived from a common ancestry. Cell lines with between a 55% to 80% match require further profiling for authentication of relatedness. Here only show cell lines with $\geq 80\%$ match.

STR Profile from ATCC:

MDA-MB-231 (ATCC[®] HTB-26[™])

Organism: Homo sapiens, human / Cell Type: epithelial / Tissue: mammary gland
 Disease: adenocarcinoma

GENERAL INFORMATION	CHARACTERISTICS	CULTURE METHOD	SPECIFICATIONS
STR Profile		Amelogenin: X	
		CSF1PO: 12,13	
		D13S317: 13	
		D16S539: 12	
		D5S818: 12	
		D7S820: 8,9	
		TH01: 7,9.3	
		TPOX: 8,9	
		vWA: 15,18	

Contact Us:

Website: <http://www.procell.com.cn/>

Telephone: 027-87287608/82917608

E-mail: sales@procell.com.cn

Fax: 027-87287608

Addendum: Electropherogram (peak data) for Submitted Sample

