

Sample Submitted By: John Smith

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ATCC Sales Order: SO0003456

FTA Barcode: MUSA0001

Cell Line Designation: RAW 264.7

Report Date:

Date Sample Received: Tuesday August 27, 2019

Methodology: Eighteen Mouse short tandem repeat (STR) loci were analyzed. Two additional markers (Human D8 and

D4) to screen for the presence of human or African green monkey species were also utilized. Each sample was processed using the ABI Prism® 3500xl Genetic Analyzer. Data were analyzed using GeneMapper® ID-X v1.2 software (Applied Biosystems). Appropriate positive and negative controls were run and

confirmed for each assay set.

Friday August 30, 2019

Data Interpretation: Cell lines were authenticated using Short Tandem Repeat (STR) analysis as described in the National

Institute of Standards and Technology (NIST) granted U.S. patent (No. 9,556,482). Database matching followed the Tanabe matching algorithm to compare the number of shared alleles between the submitted

sample profile and the reference profile, expressed as a percentage. The allele match algorithm

compares all 18 mouse loci.

ATCC performs STR Profiling following ISO 9001:2015 and ISO/IEC 17025:2017 quality standards.

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The ATCC trademark and trade name, any and all ATCC catalog numbers are trademarks of the American Type Culture Collection. Applied Biosystems, ABI Prism and GeneMapper are registered trademarks of Life Technologies Corporation. All primers used in this assay are described in (US Patent, Pub. No.: US 2017/0101677 A1).

Technical questions?

ATCC Technical Support (800) 638-6597 / +1 703-365-2700 tech@atcc.org

Ordering questions?

800-638-6597 or 703-365-2700 Fax 703-365-2750 Email: sales@atcc.org



Cell Line Authentication Service Mouse STR Profile Report

FTA Barcode: MUSA0001

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Test Results for Submitted Sample			ATCC Reference Database Profile				
Locus	Query Profile: RAW 264.7			Database Profile: TIB-71, RAW 264.7; Mouse (Mus musculus)			
18-3	18			18			
4-2	22.3			22.3			
6-7	12			12			
19-2	14			14			
1-2	17			17			
7-1	25.2			25.2			
1-1	15	16		15	16		
3-2	14			14			
8-1	13			13			
2-1	16			16			
15-3	22.3			22.3			
6-4	18			18			
11-2	17			17			
17-2	14	16		14	16		
12-1	16			16			
5-5	14			14			
X-1	24			24			
13-1	16.2			16.2			
Number of shar	ed alleles betw	een query sample	and database profile:	•	•	•	20
Total number of alleles in the query sample profile:					20		
Total number of alleles in the database profile:					20		
Percent match t	petween the su	ıbmitted sample ar	d the database profile:				100

Explanation of Test Results

Cell lines with ≥80% match are considered to be related; i.e., derived from a common ancestry. Cell lines with a percent match between a 55 - 80% require further investigation for authentication of relatedness.

require	trainer investigation for dutientication of relatedness.
X	The submitted sample profile is an exact match for the following ATCC cell line(s) in the ATCC mouse STR database: TIB-71
	The submitted sample profile is mouse, however a matching reference profile has not previously been established in the ATCC mouse STR database.
	The submitted profile is similar to the following ATCC cell line(s):
	An STR profile could not be generated from the submitted sample.
Huma	an and/or African Green Monkey Species Detection
	Human and/or African green monkey has been detected in the submitted sample profile (see attached electropherogram at Human De & D4 loci).

Additional Comments:

The submitted sample profile for RAW 264.7 is an exact match to the ATCC cell line TIB-71.



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Addendum: Comparative Output from the ATCC Mouse STR Profile Database

FTA Barcode: ATCC Sales Order:

% Match	100	100	
ATCC® Cat. No.		TIB-71	
Designation	RAW 264.7	RAW 264.7	
18-3	18	18	
4-2	22.3	22.3	
6-7	12	12	
19-2	14	14	
1-2	17	17	
7-1	25.2	25.2	
1-1	15,16	15,16	
3-2	14	14	
8-1	13	13	
2-1	16	16	
15-3	22.3	22.3	
6-4	18	18	
11-2	17	17	
17-2	14,16	14,16	
12-1	16	16	
5-5	14	14	
X-1	24	24	
13-1	16.2	16.2	

Definitions of terms used in this report:

Artifact:

A non-allelic product of the amplification process, an anomaly of the detection process, or a by-product of primer synthesis.

Pull-up:

A term used to describe when signal from one dye color channel produces artificial peaks in another, usually adjacent, color.

Spike:

An extraneous peak resulting from dust, dried polymer, an air bubble, or an electrical surge.

Dye blob:

Free dye not coupled to primer that can be injected into the capillary.

e-Signature, Technician:	
e-Signature, Reviewer:	

Reference

1. Tanabe H, et al. Cell line individualization by STR multiplex system in the cell bank found cross-contamination between ECV304 and EJ-1/T24. Tiss Cult Res Commun 18:329-38, 1999.