

## RAW 264.7 cell STR identification

### ● Experimental Procedures

Sample DNA was extracted using the Vazyme Cellular Genomic DNA Extraction Kit, amplified using the Read Microgene Mouse-derived STR Site Detection Kit, signal collection was performed by Applied Biosystems SeqStudio Genetic Analyzer, and locus analysis was performed using Genemapper software 6.

Prepare the reaction system in a PCR tube according to the following system:

Content	Volume
PCR Master Mix	5.0 µl
Primer Mix	2.5 µl
Sample	30 ng
DEPC water	To 10.0 µl

Amplification reactions were performed in a PCR instrument with the following reaction program:

Temperature	Time	Cycle
95°C	5 min	N/A
94°C	10 s	28-30 cycles
61°C	1 min	
70°C	30 s	
60°C	15 min	N/A

Prepare electrophoresis samples in PCR tubes: denature at 95°C for 3 min → cool at 4°C for 3 min and collect data on the machine.

Content	Volume
Hi-Di™ Formamide	8.5 µl
SIZE	0.5 µl
Sample	1.0 µl

### ● Experimental results

Sample Number	Database	Matching Cells	Matching Degree	Description
RAW 264.7	ATCC, DSMZ	RAW 264.7	88.37%	Matching

Analysis of sample locus report values

Loci	RAW 264.7 Sample STR Reported Value			RAW 264.7 database reference values		
	AL1	AL2	AL3	AL1	AL2	AL3
18-3	18			18		
4-2	22.3	23.3		22.3	23.3	
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	15	16		15	16	
15-3	22.3			22.3		
6-4	18			18		
11-2	17			17		
17-2	14	15		14	16	
12-1	16			16		
5-5	14			14		
X-1	24			24		
13-1	16.2	17.2		16.2	17.2	

# Cellular STR peak plot

**AB Applied Biosystems**  
GeneMapper Software 6

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