GENETIC TESTING BIOTECHNOLOGY

Cell Line Authentication Service
Mouse STR Profile Report

Sample Submitted By: Shanghai Jinyuan Biotechnology Co., Ltd.
Sales Order: Mus 250321A
Cell Line Designation: RAW264.7
Date Sample Received: Mar 21th, 2025
Report Date: Mar 21th, 2025

Methodology: Eighteen short tandem repeat (STR) loci were amplified using multiplex PCR. One additional marker (Human TH01) was used to screen for the presence of human species. The cell line sample was processed using the ABI Prism® 3130 XL Genetic Analyzer. Data were analyzed using Gene Mapper® ID v3.2 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 Almeida JL et al., Interlaboratory study to validate a STR profiling method for intraspecies identification of mouse cell lines. PLoS One. 2019;14(6):e0218412.

GTB™ performs STR Profiling following ISO 9001:2008 and ISO/IEC 17025:2005 quality standards.

NOTE: According to the recommendations of *IJC* on cell line authentication, the report is valid for 3 years since the issue date.

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	Test Results for Submitted Sample		ExPASy Reference Database Profile	
Loci	**Query Profile:** RAW264.7		**Database Profile:** RAW 264.7	
TH01(Human)	-		-	
4-2	22.3		22.3	
6-4	18		18	
1-1	15	16	15	16
6-7	12		12	
2-1	16		16	
17-2	14	16	14	16
11-2	17		17	
8-1	13		13	
19-2	*13*	14	14	
7-1	25.2		25.2	
1-2	17		17	
13-1	16.2		16.2	
5-5	14		14	
12-1	16		16	
18-3	18		18	
15-3	22.3		22.3	
3-2	14		14	
X-1	24		24	

Explanation of Test Results

Cell lines with ≥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.

- ☐ The submitted profile is mouse, but not a match for any profile in the ExPASy mouse STR database.
- ☐ The submitted profile is an exact match for the following cell line(s) in the ExPASy mouse STR database:
- ☑ The submitted profile is similar to the following ExPASy cell line(s): RAW 264.7 (97.56% match)

Human Species Detection

- ☐ Human has been detected in the submitted sample profile (see attached electropherogram at Human TH01 loci).

e-Signature Technician: Digitally signed by Xuekun Chen
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Addendum: Electropherogram for the customer's sample set 1 of 1

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