STR Authentication Report For Cell Line

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1. Cell Name: MC38

2. Test Method: DNA was extracted using the genome extraction kit (Axygen), amplified using a 20- STR amplification protocol, the STR loci and gender gene Amelogenin were detected on the ABI 3730XL Genetic Analyzer.

3. Sample gene genotype analysis result:

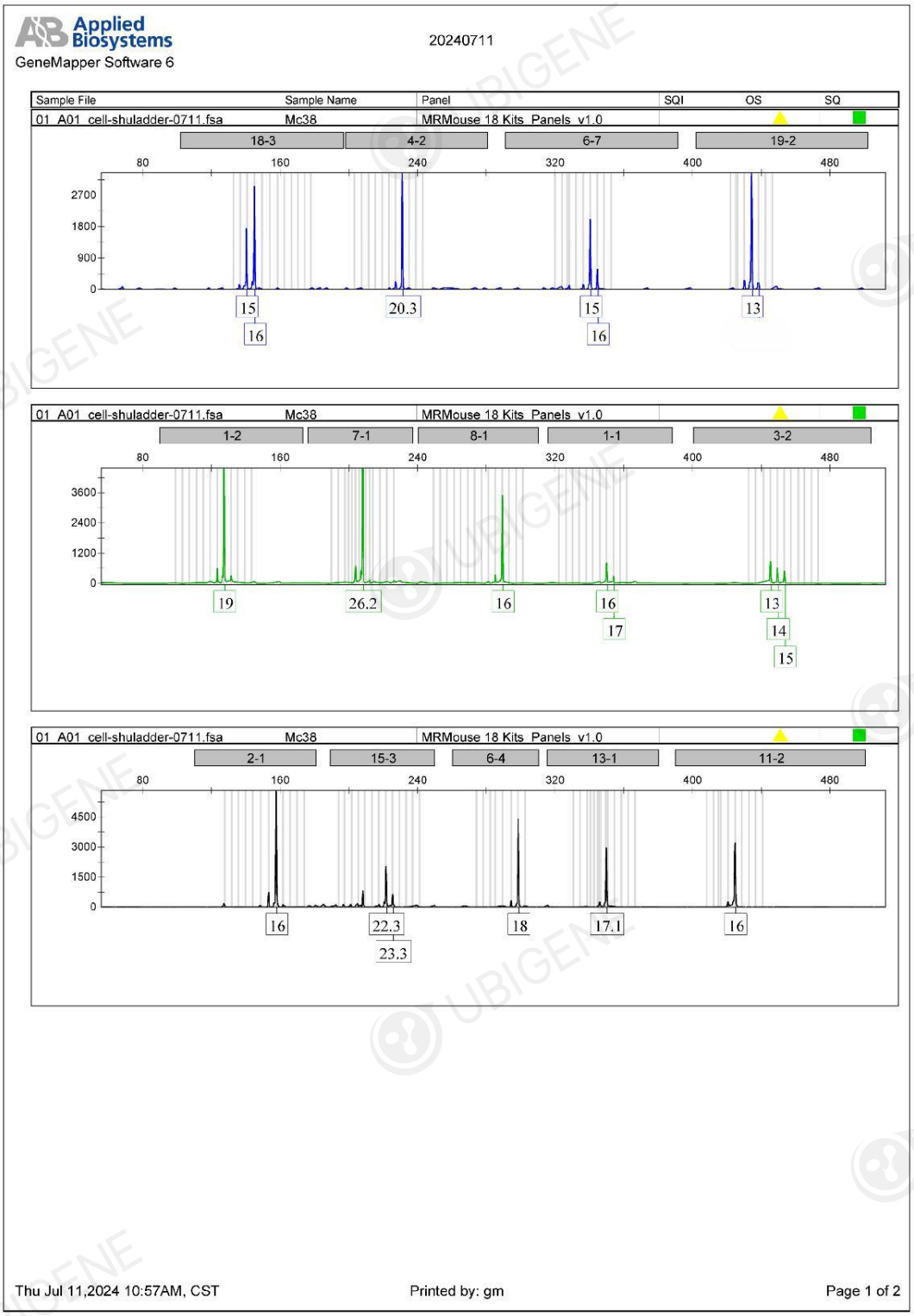
Genotype analysis results of STR and Amelogenin loci in cells							
STR Loci	STR profile for Sample cell				STR profile for Cell Bank cell		
	Cell name: Mc38				Cell name: MC-38[EXPASY kerafast]		
	Allele1	Allele2	Allele3	Allele4	Allele1	Allele2	Allele3
18-3	15.0	16.0			15.0	16.0	
4-2	20.3				20.3		
6-7	15.0	16.0			15.0	16.0	
19-2	13.0				13.0		
1-2	19.0				18.0	19.0	20.0
7-1	26.2				26.2		
8-1	16.0				16.0		
1-1	16.0	17.0			15.0	16.0	17.0
3-2	13.0	14.0	15.0		14.0	15.0	
2-1	16.0				16.0		
15-3	22.3	23.3			22.3	23.3	
6-4	18.0				18.0		
13-1	17.0				17.0		
11-2	16.0				16.0		
17-2	15.0	16.0			15.0	16.0	

12-1	17.0				17.0		
5-5	16.0	17.0			16.0	17.0	
X-1	27.0				27.0		
TH01							
D5S818							

Note: The cell lines were compared with the STR data of cell lines from ATCC, DSMZ, JCRB and RIKEN databases, the cell lines not included in the above cell banks could not be matched. D4S2408 and TH01 in the above sites is a human site, which is used to detect whether the cell is contaminated by human sources.

4. Conclusion: This cell line is identified as a mouse cell line. The STR results of **MC38** cells are consistent with the genotypes of **MC38** cell lines in **EXPASY** database, the cell ID corresponded to **CVCL_B288Kerafast; ENH204-FP** , and the STR results **basically matched**. In the test, **Multiple alleles were found, no cross-contamination, no human contamination** in this cell line.

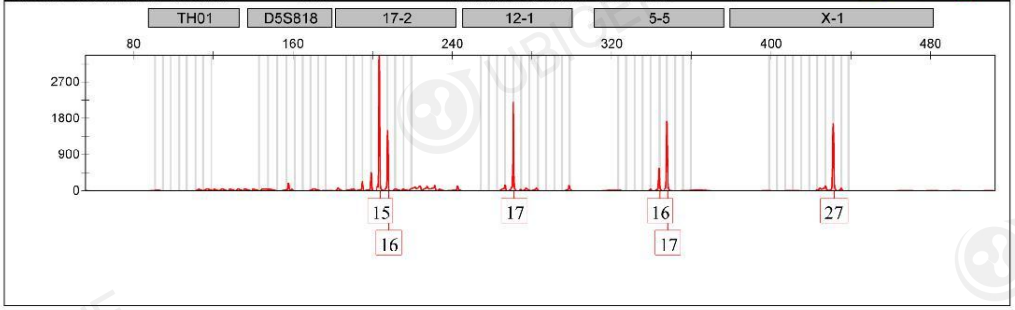
5. Attached Image



Applied Biosystems
GeneMapper Software 6

20240711

Sample File	Sample Name	Panel	SQI	OS	SQ
01_A01_cell-shuladder-0711.fsa	Mc38	MRMouse 18 Kits_Panels_v1.0			



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