



## Cell Authentication Service STR Profile Testing Report

**Sample Submitted By:** Nathan Moerke  
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**ATCC Sales Order Number:** SOF49100  
**ATCC ID Number:** 003399  
**Cell Line Designation:** K2  
**Sample Type Submitted:** FTA  
**Level of Service:** Verified(135-XV)  
**Date Sample Received:** July 26, 2013  
**Report Date:** August 5, 2013

**Methodology:** Seventeen short tandem repeat (STR) loci plus the gender determining locus, Amelogenin, were amplified using the commercially available PowerPlex® 18D Kit from Promega. The cell line sample was processed using the ABI Prism® 3500xl Genetic Analyzer. Data were analyzed using GeneMapper® IDX v1.2 software (Applied Biosystems). Appropriate positive and negative controls were used throughout the test procedure.

**Sample Disposition:** The cell line sample will be destroyed by a certified waste disposal company 6 months after the testing has been completed.

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

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Test Results for Submitted Sample					ATCC Profile or Reference Profile Provided by Submitting Institution			
Loci	Query Profile: K2				Database (or Reference) Profile: None			
D3S1358	14	15						
TH01	7							
D21S11	31							
D18S51	17							
Penta_E	11	12						
D5S818	11							
D13S317	10	13						
D7S820	10	11						
D16S539	10	13						
CSF1PO	10	11						
Penta_D	8							
Amelogenin	X							
vWA	17							
D8S1179	12							
TPOX	11							
FGA	21	22						
D19S433	13							
D2S1338	24							
Number of shared alleles between query sample and database (or reference) profile:								N/A
Total number of alleles in the database (or reference) profile:								N/A
Percent match between the submitted sample and the database (or reference) profile:								N/A
<b>NOTE:</b> 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, <b>please do not publish</b> the allele calls from all the STR loci tested. Electropherograms showing raw data are attached.								

### 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.

- ☒ The submitted sample profile is human, but not a match for any profile in the ATCC STR database
- ☐ The submitted profile is an exact match for the following ATCC human cell line(s) in the ATCC STR database (8 core loci plus Amelogenin):
- ☐ The submitted profile is similar to the following ATCC human cell line(s):
- ☐ The submitted sample profile is related to the reference profile provided by the submitting institution.
- ☐ The submitted profile is NOT related to the reference profile provided by the submitting institution.

### Additional Comments:

Submitted sample (003399 (K2)), does not match any cell lines within the ATCC database or DSMZ database.

e-Signature, Technician:	jgarnett 08/05/13
e-Signature, Reviewer:	kcottrill 08/05/13



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**Addendum: Comparative Output from the ATCC STR Profile Database**

% Match	ATCC® Cat. No,	Designation	D5S818	D13S317	D7S820	D16S539	vWA	THO1	AMEL	TPOX	CSF1PO
100	N/A	K2	11	10,13	10,11	10,13	17	7	X	11	10,11

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