



Cell Line Authentication Service

STR Profile Report

Sample Submitted By: Dr. Yi Zhang
Department of Ophthalmology, Second Affiliated Hospital, College of
Medicine, Xi'an Jiaotong University

Email Address: zhangyi127@stu.xjtu.edu.cn

Sales Order: 171208A

Cell Line Designation: ARPE-19

Date Sample Received: Dec 8th, 2017

Report Date: Dec 13th, 2017

Methodology: Nineteen short tandem repeat (STR) loci plus the gender determining locus, Amelogenin, were amplified using the commercially available EX20 Kit from AGCU. The cell line sample was processed using the ABI Prism® 3500 Genetic Analyzer. Data were analyzed using GeneMapper® ID-X v1.4 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 2012 in ANSI Standard (ASN-0002) by the ATCC Standards Development Organization (SDO) and in Capes-Davis et al., Match criteria for human cell line authentication: Where do we draw the line? Int J Cancer. 2013;132(11):2510-9.

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

There are no warranties with respect to the services or results supplied, express or implied, including, without limitation, any implied warranty of merchantability or fitness for a particular purpose. Genetic Testing Biotechnology (GTB) is not liable for any damages or injuries resulting from receipt and/or improper, inappropriate, negligent or other wrongful use of the test results supplied, and/or from misidentification, misrepresentation, or lack of accuracy of those results. Your exclusive remedy against GTB and those supplying materials used in the services for any losses or damage of any kind whatsoever, whether in contract, tort, or otherwise, shall be, at GTB's option, refund of the fee paid for such service or repeat of the service.

The GTB™ is a registered trademark of Genetic Testing Biotechnology Corporation (Suzhou).

Technical Questions?
GTB Technical Support
+86-512-62806339
STR_service@163.com
Section 303, Yixin BLD
SIP, Suzhou, 215123
Jiangsu, P.R. China

RN: 2017121314505792265
Verification: www.jsdna.org/cats

Ordering Questions?
STR_order@163.com
GTB Corporation
+86-512-62806339
Section 303, Yixin BLD
SIP, Suzhou, 215123
Jiangsu, P.R. China

Cell Line Authentication Service

STR Profile Report

Sales Order: 171208A

Test Results for Submitted Sample			DSMZ Reference Database Profile	
Loci	Query Profile: ARPE-19		Database Profile: ARPE-19	
Amelogenin	X	Y	X	Y
D3S1358	14	15		
D13S317	11	12	11	12
D7S820	9	11	9	11
D16S539	9	11	9	11
Penta E	7	11		
TPOX	9	11	9	11
TH01	6	9.3	6	9.3
D2S1338	19			
CSF1PO	11		11	
Penta D	11	13		
D19S433	12	13		
vWA	16	19	16	19
D21S11	28	29		
D18S51	12	16		
D6S1043	17	19		
D8S1179	13			
D5S818	13		13	
D12S391	21	22		
FGA	23			

The allele match algorithm compares the 8 core loci plus amelogenin only, even though alleles from all loci will be reported when available.

Note: 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, **please do not publish** the allele calls from all the STR loci tested.

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 DSMZ STR database.
- The submitted profile is an exact match for the following human cell line(s) in the DSMZ STR database (8 core loci plus Amelogenin): ARPE-19
- The submitted profile is similar to the following DSMZ human cell line(s):

e-Signature Technician:



e-Signature Reviewer:

Digitally signed by Faye Wong
 DN: cn=Faye Wong, o=Genetic Testing Biotechnology
 (Suzhou), ou=DNA Typing Section,
 email=str_service@163.com, c=CN
 Date: 2017.12.13 14:59:38 +08'00'

Digitally signed by Alan Cui
 DN: cn=Alan Cui, o=Genetic Testing Biotechnology
 Corporation (Suzhou), ou=Supervision Section,
 email=str_order@163.com, c=CN
 Date: 2017.12.13 14:59:59 +08'00'



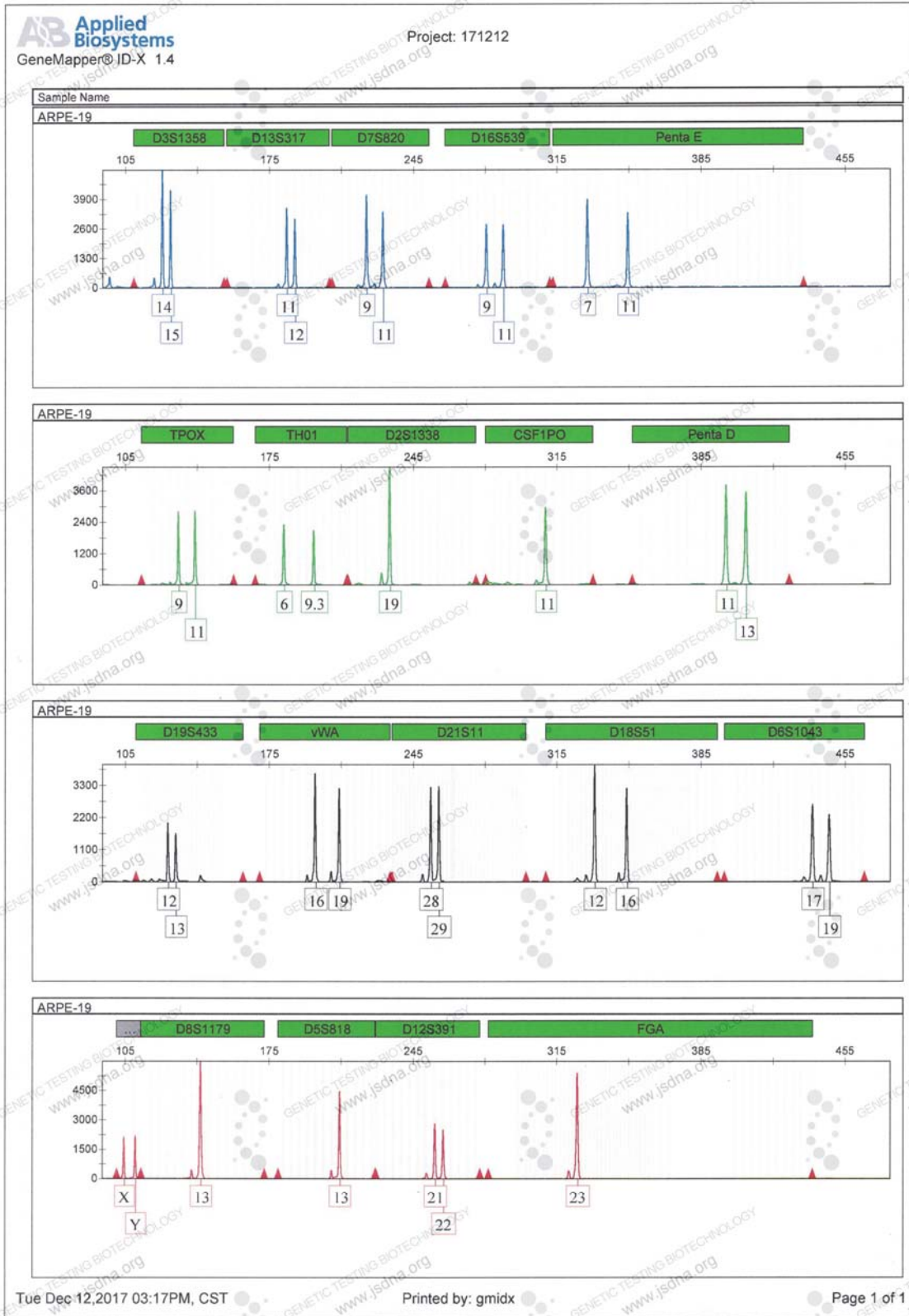
More information

Addendum: Electropherogram/matching results for the customer's sample set 1 of 1



Cell Line Authentication Service

STR Profile Report





AMERICAN JOURNAL EXPERTS

EDITORIAL CERTIFICATE

This document certifies that the manuscript listed below was edited for proper English language, grammar, punctuation, spelling, and overall style by one or more of the highly qualified native English speaking editors at American Journal Experts.

Manuscript title:

Placental Growth Factor Promotes Epithelial-to-Mesenchymal Transition-like Changes in ARPE-19 cells under hypoxia

Authors:

Yi Zhang, Lin Zhao, Lijun Wang, Xiting Yang, Aiyi Zhou, Jianming Wang

Date Issued:

February 18, 2018

Certificate Verification Key:

281C-A91E-2BA8-520A-8ADF



This certificate may be verified at www.aje.com/certificate. This document certifies that the manuscript listed above was edited for proper English language, grammar, punctuation, spelling, and overall style by one or more of the highly qualified native English speaking editors at American Journal Experts. Neither the research content nor the authors' intentions were altered in any way during the editing process. Documents receiving this certification should be English-ready for publication; however, the author has the ability to accept or reject our suggestions and changes. To verify the final AJE edited version, please visit our [verification page](#). If you have any questions or concerns about this edited document, please contact American Journal Experts at support@aje.com.

American Journal Experts provides a range of editing, translation and manuscript services for researchers and publishers around the world. Our top-quality PhD editors are all native English speakers from America's top universities. Our editors come from nearly every research field and possess the highest qualifications to edit research manuscripts written by non-native English speakers. For more information about our company, services and partner discounts, please visit www.aje.com.