(1) UBIGER

(1) UBIGENE **STR Authentication Report For Cell Line**

Tel: +86 153 6067 3248(Int'l) US Toll free: 855 777 3210 EU Toll free: 800 3272 9252

Korea Toll free: 001 800 3272 9252

Email: info@ubigene.com Web: www.ubigene.us

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1. Cell Name: ISHIKAWA

- 2. Test Method: DNA was extracted using the genome extraction kit (Axygen), amplified using a 21- STR amplification protocol, the STR loci and gender gene Amelogenin were detected on the ABI 3730XL Genetic Analyzer. JUBIGEN
- 3. Sample gene genotype analysis result:

	Genoty	pe analysis	results of S	TR and Amel	ogenin loci	in cells	/
STR Loci	GEINS	STR profile fo	or Sample cel	STR profile for Cell Bank cell			
	(Cell name: IS	HIKAWA-Luc	Cell name: Ishikawa			
	Allele1	Allele2	Allele3	Allele4	Allele1	Allele2	Allele3
D5S818	10	11		BIO	10	11	
D13S317	9	12			9	12	
D7S820	9	10			9	10	IBIGE
D16S539	9	9			9	9(-1)	
VWA	14	17			14	17	
TH01	9	10			9	10	
AMEL	Х	Х			Х	Х	
TPOX	8	8		GEN	8	8	
CSF1PO	12	13		JBI	11	12	
D12S391	18	19	20.0	21.0			25
FGA	20	21	22.0				IBIGE
D2S1338	19	21					
D21S11	28	28					
D18S51	12	20					
D8S1179	13	16					

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D3S1358	16	17				
D6S1043	12	18			,	
PENTAE	11	19		GEN		
D19S433	12.2	14		JBIO		
PENTAD	10	11				a ET
D1S1656	13	14	15.0			IBIO

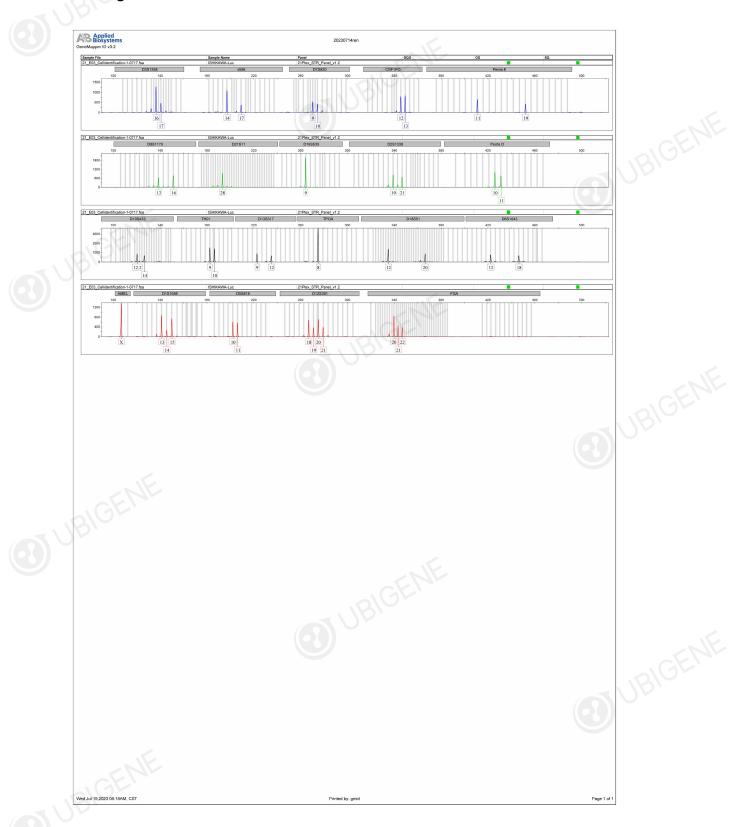
4. Conclusion: The STR results of <u>ISHIKAWA</u> cells are consistent with the genotypes of <u>ISHIKAWA</u> cell lines in <u>DSMZ</u> database, the cell ID corresponded to <u>CVCL_2529</u>, and the STR results <u>basically matched</u>. In the test, <u>Multi allele was found</u> in this cell line.

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5. Attached Image



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