

STR Authentication Report For Cell Line

1. Cell Name: ES-2

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.

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: ES-2-Y01-Z			Cell name: ES-2 (Ovarian-clear-cell-adenocarcinoma)		
	Allele1	Allele2	Allele3	Allele1	Allele2	Allele3
D5S818	11	13		11	13	
D13S317	11	11		11	11	
D7S820	11	11		11	11	
D16S539	11	13		11	13	
VWA	16	17		16	17	
TH01	9.3	9.3		9.3	9.3	
AMEL	X	X		X	X	
TPOX	8	12		8	12	
CSF1PO	10	15		10	15	
D12S391	20	21				
FGA	21	21				
D2S1338	17	23				
D21S11	32.2	33.2				
D18S51	13	15				
D8S1179	14	14				
D3S1358	15	18				

D6S1043	11	12				
PENTAE	13	16				
D19S433	15	15.2				
PENTAD	8	13				
D1S1656	13	16				

4. Conclusion: The STR results of **ES-2** cells are consistent with the genotypes of **ES-2** cell lines in **DSMZ** database, the cell ID corresponded to **CRL-1978** , and the STR results **completely matched**. In the test, **No multi allele was found** in this cell line.