

STR Authentication Report For Cell Line

1. Cell Name: ACT-1

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: STR25031415			Cell name: ACT-1 [Human thyroid carcinoma]		
	Allele1	Allele2	Allele3	Allele1	Allele2	Allele3
D5S818	11	13		11	13	
D13S317	10	12		10	12	
D7S820	10	11		10	11	
D16S539	9	11		9	11	
VWA	17	18		17	18	
TH01	6	9		6	9	
AMEL	X	X		X	X	
TPOX	8	8		8	8	
CSF1PO	11	12		11	12	
D12S391	18	20				
FGA	23	24				
D2S1338	19	22				
D21S11	30	31				
D18S51	15	16				
D8S1179	11	14				
D3S1358	16	16				

D6S1043	12	14				
PENTAE	12	18				
D19S433	14	14				
PENTAD	9	11				
D1S1656	15	16				

4. Conclusion: The STR results of **ACT-1** cells are consistent with the genotypes of **ACT-1 [Human thyroid carcinoma]** cell lines in **EXPASY** database, the cell ID corresponded to **CVCL 6291** , and the STR results **completely matched**. In the test, **No multi allele was found** in this cell line.

5. Attached Image

