

## STR Authentication Report For Cell Line

1. Cell Name: RKO

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: RKO			Cell name: p53R [JHU-56]		
	Allele1	Allele2	Allele3	Allele1	Allele2	Allele3
D5S818	11	13		11	13	
D13S317	8	11		8	11	
D7S820	8	10		8	10	
D16S539	13	13		12	13	
VWA	16	22		16	22	
TH01	6	10		6	10	
AMEL	X	X		X	X	
TPOX	11	11		11	11	
CSF1PO	8	10		8	10	
D12S391	15	19	20.0			
FGA	20	21	23.0			
D2S1338	16	16				
D21S11	27	29	30.0			
D18S51	11	12				
D8S1179	9	13	14.0			
D3S1358	16	19				
D6S1043	14	19				

PENTAE	11	13				
D19S433	14	14				
PENTAD	10	11				
D1S1656	13	14	17.3			

4. Conclusion: The STR results of **RKO** cells are consistent with the genotypes of **RKO** cell lines in **DSMZ** database, the cell ID corresponded to **CRL-2781** , and the STR results **basically matched**. In the test, **Multi allele was found** in this cell line.

## 5. Attached Image

