Cell Line Authentication Report

Institution：Cobioer Biosciences CO.,LTD	Vendor：Cobioer Biosciences CO.,LTD
Customer：Taohua Jiang	Attention：Taohua Jiang
Tel：025-86880024	Tel：025-86880024
Email：jiangtaohua@cobioer.com	Email：jiangtaohua@cobioer.com

1. **Sample information:**

Sample No.: “NK92MI”

2. Methods:

a. Genomic DNA was extracted from the cell pellets provided by the customer.
b. Samples, together with positive and negative control were amplified using GenePrint System (Promega).
c. Amplified products were processed using the ABI3730xl Genetic Analyzer.
d. Data was analyzed by GeneMapper4.0 software and then compared with the ATCC, DSMZ or JCRB databases for reference matching.

3. Results:

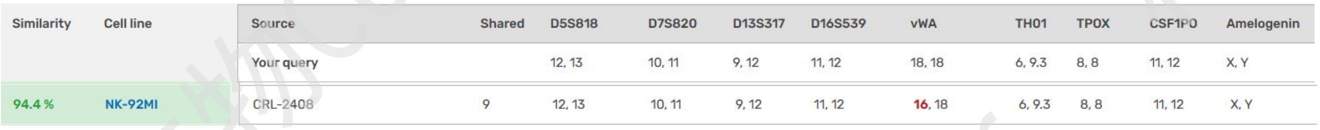
STR profile

Marker	**Sample**				**Database**		
	Allele1	**Allele2**	**Allele3**	**Allele4**	**Allele1**	**Allele2**	**Allele3**
D5S818	12	13			12	13	
D13S317	9	12			9	12	
D7S820	10	11			10	11	
D16S539	11	12			11	12	
VWA	18	18			16	18	
TH01	6	9.3			6	9.3	
AMEL	X	Y			X	Y	
TPOX	8	8			8	8	
CSF1PO	11	12			11	12	
D12S391	19	20					
FGA	20	22					
D2S1338	19	20					
D21S11	31.2	32					
D18S51	12	17					
D8S1179	12	12					
D3S1358	15	15					
D6S1043	11	12					
PENTAE	12	12					
D19S433	14	15					
PENTAD	10	12					
D1S1656	12	14					

4. Conclusion

A． The STR results show that there are no four alleles on the main nine locus, there is certainly no cross contamination of human cells in this cell line.

B． The match percent between the sample and the STR database profile is **94.4%**, the cell name is **NK-92MI.**



Similarity	Cell line	Source	Shared	D5S818	D7S820	D13S317	D16S539	vWA	TH01	TPOX	CSF1PO	Amelogenin
		Your query		12, 13	10, 11	9, 12	11, 12	18, 18	6, 9.3	8, 8	11, 12	X, Y
94.4 %	NK-92MI	CRL-2408	9	12, 13	10, 11	9, 12	11, 12	16, 18	6, 9.3	8, 8	11, 12	X, Y

Note:

1. The STR profile data was compared with the ATCC, DSMZ or JCRB databases, if the cell line is not included in the three institutions, the results are not correct. More information you provided would be useful for Cell Line Authentication.
2. Based on the ANSI Standard, cell lines with 100% match are considered to be “identical”; cell lines with ≥80% but less than 100% match are considered to be “related”.

Operator：Xiaomei Liu, Qin Wang

Leader：Wei Zhou

Date：2023-01-29