



## Analysis Report

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This report illustrates the classification of your iPSCs in comparison to pluripotent and non-pluripotent cells. The Epi-Pluri-Score is a combination of DNA methylation levels at the two CpG sites in the genes *ANKRD46* and *C14orf115*. The CpG site in the pluripotency-associated gene *POU5F1* (OCT4) further discriminates pluripotent from non-pluripotent cells. For further information please contact [www.cygenia.com](http://www.cygenia.com).

The Epi-Pluri-Score is defined as:  $\beta\text{-value [ANKRD46]} - \beta\text{-value [C14orf115]}$ .

Sample ID	DNA Methylation percentage at 3 CpGs			Epi-Pluri-Score
	$\beta\text{-value [ANKRD46]}$	$\beta\text{-value [C14orf115]}$	$\beta\text{-value [POU5F1]}$	
ATCC	32.8	9.1	52.3	23.7
CT2	18.9	9.8	75.2	9.1
CT3	26.9	6.7	59.1	20.2
CT4	26.1	8.9	77.4	17.1
BD1	23.9	6.7	59.0	17.2
BD2	21.7	9.9	70.1	11.8
BD3	16.0	9.6	72.2	6.4
MS2	24.5	7.6	65.3	16.9
MS3	34.4	7.1	64.6	27.3
MS4	23.8	9.6	82.5	14.2
MS6	33.4	7.9	69.8	25.5
MS8	23.1	6.0	76.2	17.1
MS9	19.1	10.4	76.2	8.7
MS10	40.5	7.7	78.0	32.8
MS12	22.9	8.4	71.6	14.5
MS14	21.9	12.4	87.7	9.5
MS15	33.3	8.3	84.8	24.9

The overall quality of the pyrosequencing results is good. All samples revealed a positive Epi-Pluri-Score and can therefore be classified as pluripotent. However, for some samples the scores are not very high and particularly MS4, MS14 and MS15 had high methylation in POU5F1, indicating that these samples might have partial differentiation.