

Copy number variation (CNV) analysis				Document No.	2019-12
				Issue date	2019-12-05
<b>Stem cell Information</b>					
Stem cell line	hFSiPS3-1			Institute	KSCR
Cell type	hiPSC			Inspection date	2019-09-30
Banking status	Cell line distribution for research			Issue date	2019-12-05
Passage	p30				
Note					
<b>Experiment type</b>					
<b>SNP chip</b>					
Platform	Affymetrix CytoscanHD		Analysis program	ChAS 4.0	
Reference	hg38		Analysis document	SOP#26.1-Ver.5	
<b>Statistics</b>					
		<b>Total</b>	<b>Gain</b>	<b>Loss</b>	
the number of total CNVs		2			
the number of manually filtered CNVs		1	1	0	
<b>Result of Data Analysis</b>					
List of CNVs					
	<b>Total</b>	<b>Gain</b>	<b>Loss</b>	<b>Cytoband</b>	
<b>The number of total CNV calls</b>	<b>1</b>	<b>1</b>	<b>0</b>	<b>20q11.21</b>	
The number of Pathogenic CNVs	1	1	0	20q11.21	
The number of Recurrent CNVs	1	1	0	20q11.21	
The number of stemness-related CNVs	1	1	0	20q11.21	
The number of Differentiation-related CNVs	1	1	0	20q11.21	
The number of cancer-related CNVs	1	1	0	20q11.21	
The number of immunogenicity-related CNVs	1	1	0	20q11.21	
*Recurrent CNVs include CNV gain on 1q41, 12p13.31, 17q25.2 and 20q11.21, CNV loss on 10p11.22					
<b>Interpretation</b>					

<b>Copy number variation (CNV) analysis</b>	Document No.	2019-12
	Issue date	2019-12-05

**Stem cell Information**

Stem cell line	<b>hFSiPS3-1</b>	Institute	KSCR
Cell type	<b>hiPSC</b>	Inspection	2019-09-30
Banking status	<b>Cell line distribution for research</b>	Issue date	2019-12-05
Passage	<b>p30</b>		
Note			

**Result of Data Analysis**

**List of CNVs**

chr	Cytoband	chr_start	chr_end	length (kbp)	Copy Number	CNV	Genes	OMIM Gene counts	OMIM genes (Phenotype)	Recurrent CNV	Cancer-related	Stemness-related	Differentiation-related	immuno genicity-related
20	q11.21	31,245,731	32,969,277	1723.5	3	Gain	DEFB115, DEFB116, DEFB118, DEFB119, DEFB121, DEFB122, DEFB123, DEFB124, REM1, LINC00028, HM13, HM13- AS1, ID1, MIR3193, COX4I2, BCL2L1, ABALON, TPX2, MYLK2, FOXS1, DUSP15, TTL9, PDRG1, XKR7, MIR7641-2, CCM2L, HCK, TM9SF4, TSPY26P, PLAGL2, PORUT1, MIR1825, KIF3B, ASXL1, NOL4L, LOC101929698, LOC149950, C20orf203, COMMD7, DNMT3B,	24	DEFB118 (607650), DEFB119 (615997), DEFB121 (616075), DEFB122 (616077), DEFB123 (616076), REM1 (610388), HM13 (607106), ID1 (600349), COX4I2 (607976), BCL2L1 (600039), ABALON (616018), TPX2 (605917), MYLK2 (606566), FOXS1 (602939), DUSP15 (616776), PDRG1 (610789), HCK (142370), PLAGL2 (604866), PORUT1 (607491), KIF3B (603754), ASXL1 (612990), COMMD7 (616703), DNMT3B (602900), MAPRE1 (603108)	Yes	BCL2L1, AS	DNMT3	DNMT3	DEFB119, DEFB123