

<b>Copy number variation (CNV) analysis</b>			Document No.	2015-04				
			Issue date	2018-10-15				
<b>Stem cell Information</b>								
Stem cell line	hFmiPS2		Institute	KSCR				
Cell type	hiPSC		Inspected Date					
Banking status	DCB		Issue date	2018-10-15				
Passage	p27							
Note								
<b>Experiment type</b>								
<b>SNP chip</b>								
Platform	illumina Human Omni 2.5 Exome Beadchip	Analysis program	GenomeStudio, PennCNV					
Reference	hg19	Analysis document	SOP#26-Ver.4					
<b>Statistics</b>								
		Total	Gain	Loss				
the number of total CNVs		8	6	2				
the number of manually filtered CNVs		6	5	1				
the number of CNVs excluded Korean normal CNV DB (KGVD)		6	5	1				
<b>Result of Data Analysis</b>								
List of CNVs								
	Total	Gain	Loss	Cytoband				
The number of total CNV calls	6	5	1					
The number of Pathogenic CNVs	3	3	0	4q31.21, 20q11.21, 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	2	2	0	4q31.21, 20q11.21				
*Recurrent CNVs include CNV gain on 1q41, 12p13.31, 17q25.2 and 20q11.21, CNV loss on 10p11.22								
<b>Interpretation</b>								

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<b>Result of Data Analysis</b>						
List of CNVs						
chr	Cytoband	chr_start	chr_end	length	Copy Number	CNV
1	q21.3	151,376,067	151,408,434	32,368	cn=3	Gain
4	q31.21	144,990,400	145,035,788	45,389	cn=3	Gain
11	q25	131,511,581	131,605,278	93,698	cn=1	Loss
20	q11.21	29,863,685	29,909,618	45,934	cn=3	Gain
20	q11.21	30,021,789	30,347,832	326,044	cn=3	Gain
20	q11.21	30,681,285	32,806,891	2,125,607	cn=3	Gain

