

Copy number variation (CNV) analysis				Document No.	2018-05
				Issue date	2018-10-15
Stem cell Information					
Stem cell line	DKH005i-A			Institute	KSCR
Cell type	hiPSC			Inspection date	2018-07-27
Banking status	Internal Deposited Cell Line Banking			Issue date	2018-10-15
Passage	p6				
Note					
Experiment type					
SNP chip					
Platform	Affymetrix CytoscanHD		Analysis program	ChAS 3.1	
Reference	hg19		Analysis document	SOP#26-Ver.4	
Statistics					
		Total	Gain	Loss	
the number of total CNVs		11			
the number of manually filtered CNVs		3	2	1	
the number of CNVs excluded Korean normal CNV DB (KGVDB)		2	2	0	
Result of Data Analysis					
List of CNVs					
	Total	Gain	Loss	Cytoband	
The number of total CNV calls	3	2	1		
The number of Pathogenic CNVs	2	2	0	14q32.33, 15q13.3	
The number of Recurrent CNVs	.	.	.		
The number of stemness-related CNVs	.	.	.		
The number of Differentiation-related CNVs	.	.	.		
The number of cancer-related CNVs	.	.	.		
The number of immunogenicity-related CNVs	.	.	.		
*Recurrent CNVs include CNV gain on 1q41, 12p13.31, 17q25.2 and 20q11.21, CNV loss on 10p11.22					
Interpretation					

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Cell type	hiPSC									Inspection	2018-07-27				
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Passage	p17														
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	immunogenicity-related	KGVDB
5	q22.1	110,922,925	111,349,320	426,395	3	Gain	STARD4-AS1, NREP, NREP-AS1	1	NREP (607332)	No
8	p11.22	39,247,097	39,386,952	139,855	1	Loss	ADAM5, ADAM3A	0		Yes
14	q32.33	106,329,183	106,777,331	448,148	3	Gain	KIAA0125, ADAM6, LINC00226	1	KIAA0125 (616623)	No