Copy number variation (CNV) analysis

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Stem cell Information

Stem cell line	**CRMiPSC-GFP**	Institute	KSCR
Cell type	**hiPSC**	Inspection	
Banking status	**PCB**	Issue date	2018-10-15
Passage	**p70**		
Note			

Experiment type

SNP chip

Platform	illumina Human Omni 2.5 Exome Beadchip	**Analysis program**	GenomeStudio, PennCNV
Reference	hg19	**Analysis document**	SOP#26-Ver.4

Statistics

	Total	Gain	Loss	
the number of total CNVs	8	5	3	
the number of manually filtered CNVs	3	1	2	
the number of CNVs excluded Korean normal CNV DB (KGVDB)	1	1	0	

Result of Data Analysis

List of CNVs

	Total	Gain	Loss	Cytoband
The number of total CNV calls	**3**	**1**	**2**	
The number of Pathogenic CNVs	.	.	.	
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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Stem cell Information

Stem cell line	CRMiPSC-GFP	Institute	KSCR
Cell type	hiPSC	Inspected	
Banking status	PCB	Issue date	2018-10-15
Passage	70		
Note			

Result of Data Analysis

List of CNVs

chr	Cytoband	chr_start	chr_end	length	Copy Number	CNV	Genes	Pathogenic CNV	Phenotype	Recurrent CNV	Cancer-related	Stemness-related	Differentiation-related	immunogenicity-related	KGVDB
2	q33.1	201,460,316	201,493,158	32,843	cn=1	Loss	AOX1	.	.	.	.	.	.	.	Yes
2	q36.3	228,241,621	228,258,288	16,668	cn=3	Gain	TM4SF20	.	.	.	.	.	.	.	No
6	p21.33	31,785,453	31,795,550	10,098	cn=1	Loss	HSPA1A,HSPA1B	.	.	.	.	.	.	.	Yes

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