

Karyotype Report

Customer sample ID: 1B, iPSC-1B-DNA
Internal sample ID: DE36SCRHIHD100028
Date of receipt: 2021-12-06

Gender

Stated: Male
Chr. X derived: Male

Genotype identity: DESCRHIH00026 1 Fibroblast control_1_DNA
DESCRHIH00027 1A iPSC-1A-DNA

Karyotyping

Technology used: Illumina BeadArray

Product: HumanOmni2.5Exome-8 BeadChip v1.5
Manifest file: InfiniumOmni2-5Exome-8v1-5_A1.bpm
Cluster file: InfiniumOmni2-5Exome-8v1-5_A1-Cluster-File.egt

Chip barcode and segment: 204372050076 R03C01

Batch ID and 96 well position: WG6926597-MSA6 C11

Call rate: 0,9929509

Typing

Scanner: Illumina iScan, S/N: N234
Site of processing: Life&Brain GENOMICS, Bonn, Germany
Manufacturer: Illumina, Inc., San Diego, United States of America
Date of scan: 2021-12-15-2215

Genotype Analysis

Genome Studio: GenomeStudio V2.0.5
Genotyping module: Ver. 2.0.5

Copy Number Analysis

Algorithm applied: CNV-Partition
Version: 3.2.0
Software producer: Illumina, Inc., San Diego, United States of America

Noteworthy findings

No larger chromosomal aberrations observed.

Analyst

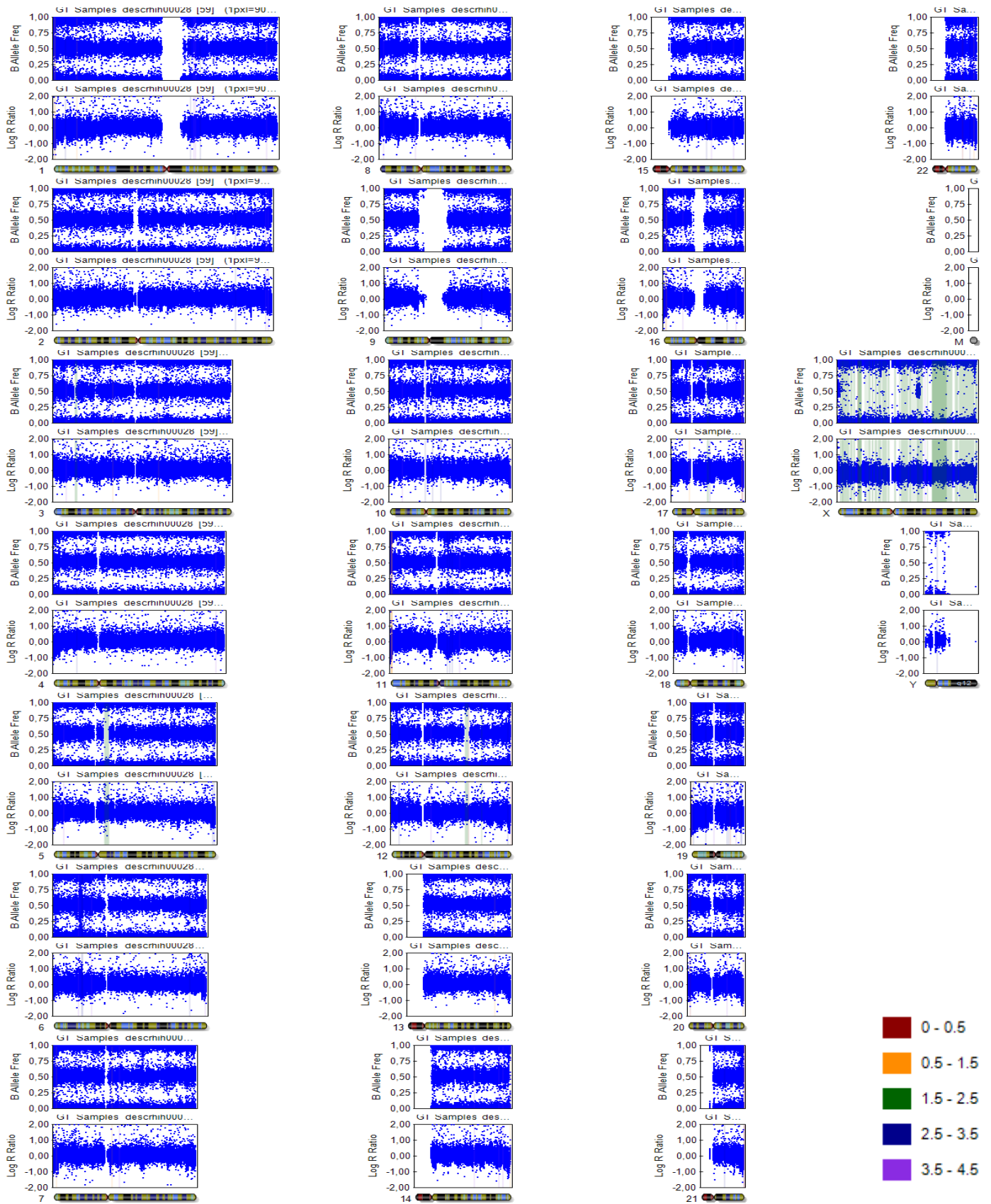
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Control Dashboard

Sample_ID / Satrix_Label	Category	Control (BeadType)	Section 1 X	Section 1 Y	State
DESCRHIH00028 / 204372050076_R03C01	Staining	DNP (High) (27630314)	29843	48	OK/OK
DESCRHIH00028 / 204372050076_R03C01	Staining	DNP (Bgnd) (43603326)	426	106	Notable/Notable
DESCRHIH00028 / 204372050076_R03C01	Staining	Biotin (High) (41666334)	500	12792	OK/OK
DESCRHIH00028 / 204372050076_R03C01	Staining	Biotin (Bgnd) (34648333)	311	64	OK/OK
DESCRHIH00028 / 204372050076_R03C01	Extension	Extension (A) (17616306)	28370	307	OK/OK
DESCRHIH00028 / 204372050076_R03C01	Extension	Extension (T) (14607337)	29749	229	OK/OK
DESCRHIH00028 / 204372050076_R03C01	Extension	Extension (C) (12613307)	1398	13114	OK/OK
DESCRHIH00028 / 204372050076_R03C01	Extension	Extension (G) (11603365)	1710	12760	OK/OK
DESCRHIH00028 / 204372050076_R03C01	Target Removal	Target Removal (31623323)	885	159	OK/OK
DESCRHIH00028 / 204372050076_R03C01	Hybridization	Hyb (High) (19612319)	1300	11927	OK/Notable
DESCRHIH00028 / 204372050076_R03C01	Hybridization	Hyb (Medium) (20636378)	584	7805	OK/OK
DESCRHIH00028 / 204372050076_R03C01	Hybridization	Hyb (Low) (23617335)	1202	2703	OK/OK
DESCRHIH00028 / 204372050076_R03C01	Stringency	String (PM) (32629312)	19891	356	OK/OK
DESCRHIH00028 / 204372050076_R03C01	Stringency	String (MM) (33668307)	9824	241	Notable/OK
DESCRHIH00028 / 204372050076_R03C01	Non-Specific Binding	NSB (Bgnd) (28637363)	495	188	OK/OK
DESCRHIH00028 / 204372050076_R03C01	Non-Specific Binding	NSB (Bgnd) (27624356)	474	87	OK/OK
DESCRHIH00028 / 204372050076_R03C01	Non-Specific Binding	NSB (Bgnd) (25617343)	489	143	OK/OK
DESCRHIH00028 / 204372050076_R03C01	Non-Specific Binding	NSB (Bgnd) (24616350)	458	158	OK/OK
DESCRHIH00028 / 204372050076_R03C01	Non-Polymorphic	NP(A) (34633358)	8705	187	OK/OK
DESCRHIH00028 / 204372050076_R03C01	Non-Polymorphic	NP(T) (16648324)	13205	204	OK/OK
DESCRHIH00028 / 204372050076_R03C01	Non-Polymorphic	NP(C) (43641328)	739	6458	OK/OK
DESCRHIH00028 / 204372050076_R03C01	Non-Polymorphic	NP(G) (13642359)	752	5783	OK/Notable

All „Notable“ tagged probes are within specs. The karyogram can be evaluated.

Karyogram



Copy Number Analysis

Copy number events will be reported if larger than 350'000 base pairs, 1Mbp for loss of heterozygosity regions.

Database of Genomic Variants comparison: Number stated represent population based copy number variants that span the reported event completely.

Copy number analysis

Algorithm applied: CNV-Partition

Version: 3.2

Software producer: Illumina, Inc., San Diego, United States of America

Sample ID	Chr	Start	End	Type	Length	Marker count	CN Confidence	DGV Comparison
DESCRHIH00028	3	23683479	26555022	2	2871543	2977	812,0588	
DESCRHIH00028	5	56727958	62972366	2	6244408	4816	1096,799	
DESCRHIH00028	7	64680122	65080102	1	399980	208	551,1316	CNV-CNV: 4, CNV-Complex: 1, CNV-Deletion: 1, CNV-Gain: 2, CNV-Gain+Loss: 2, CNV-Loss: 9, OTHER-Inversion: 1
DESCRHIH00028	10	46965115	47703869	3	738754	311	944,4501	CNV-CNV: 231, CNV-Complex: 5, CNV-Deletion: 1, CNV-Gain: 62, CNV-Gain+Loss: 2, CNV-Loss: 112, OTHER-Inversion: 1
DESCRHIH00028	12	81974189	84113831	2	2139642	1536	343,5118	
DESCRHIH00028	12	84121474	86039034	2	1917560	1202	241,2486	
DESCRHIH00028	12	99991075	101447641	2	1456566	1210	238,6449	
DESCRHIH00028	17	38991052	41170959	2	2179907	2214	398,3614	