

## Karyotype Report

Customer sample ID: NP0138-19E  
Internal sample ID: DE92DIVUKOD100202  
Date of receipt: 2017-10-19

### Gender

Stated: Unknown  
Chr. X derived: Female

Genotype identity with: NP0138-8B / DEDIVUKO00201, NP0138-31B / DEDIVUKO00203

## Karyotyping

Technology used: Illumina BeadArray

Product: HumanOmni2.5Exome-8 BeadChip v1.3  
Manifest file: HumanOmni2-5Exome-8v1-3\_A1.bpm  
Cluster file: HumanOmni2-5Exome-8v1-3\_A1.egt

Chip barcode and segment: 201334740023 R02C01

Batch ID and 96 well position: WG6906607-MSA6 B02

Call rate: 0,996564

### Typing

Scanner: Illumina iScan, S/N: N263  
Site of processing: Life&Brain GENOMICS, Bonn, Germany  
Manufacturer: Illumina, Inc., San Diego, United States of America  
Date of scan: 2017-12-19-1306

### Genotype Analysis

Genome Studio: GenomeStudio V2.0.2  
Genotyping module: Ver. 2.0.2

### Copy Number Analysis

Algorithm applied: CNV-Partition  
Version: 3.2  
Software producer: Illumina, Inc., San Diego, United States of America

## Noteworthy findings

No larger chromosomal aberrations to be reported; Chr20: Duplication in q11.21.

## Analyst

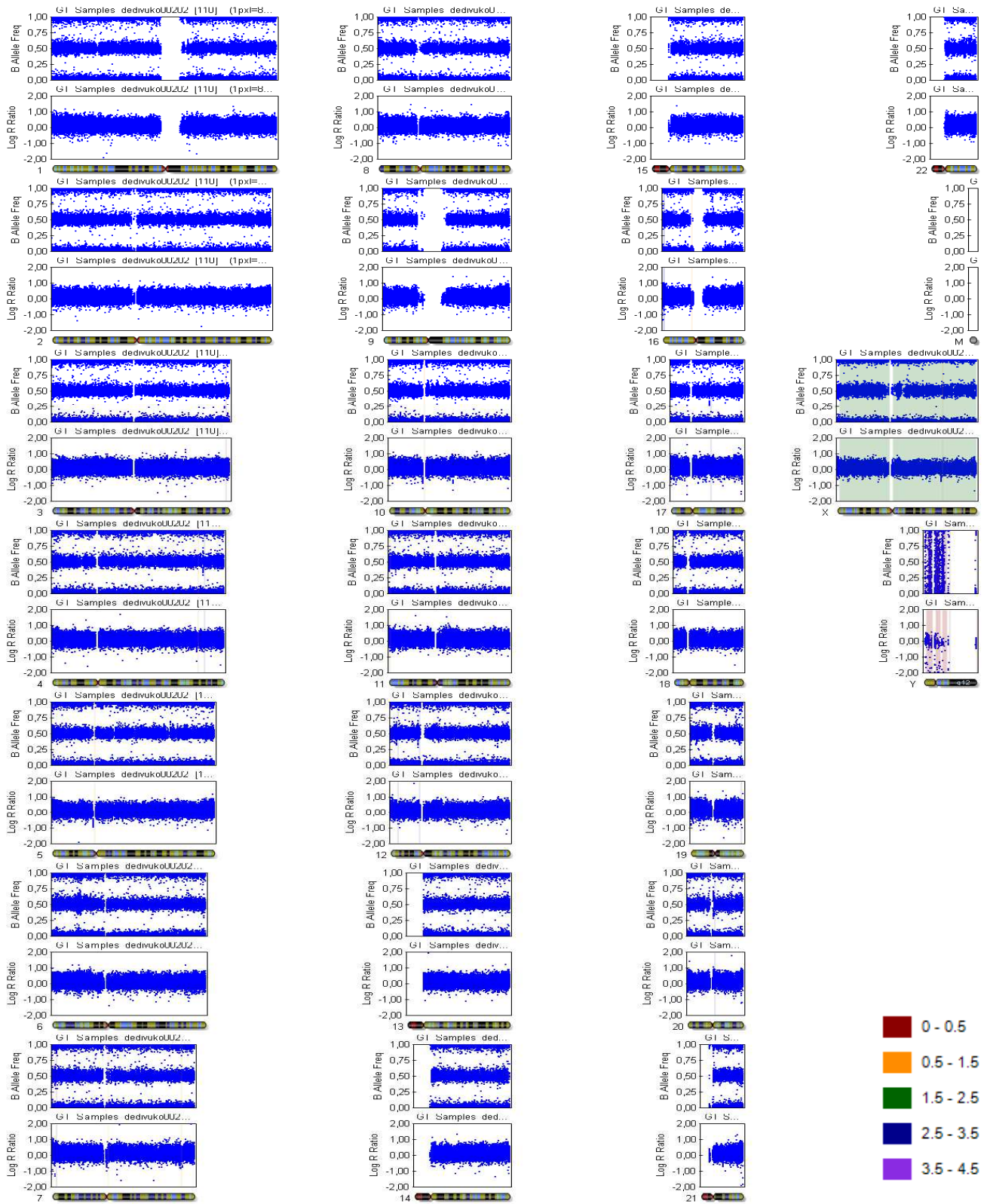
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## Control Dashboard

Sample_ID / Sentrix_Label	Category	Control (BeadType)	Section 1 X	Section 1 Y	State
DEDIVUKO00202 / 201334740023_R02C01	Staining	DNP (High) (27630314)	24272	75	OK/OK
DEDIVUKO00202 / 201334740023_R02C01	Staining	DNP (Bgnd) (29619375)	224	251	OK/OK
DEDIVUKO00202 / 201334740023_R02C01	Staining	Biotin (High) (41666334)	293	10870	OK/OK
DEDIVUKO00202 / 201334740023_R02C01	Staining	Biotin (Bgnd) (34648333)	208	58	OK/OK
DEDIVUKO00202 / 201334740023_R02C01	Extension	Extension (A) (17616306)	24078	264	OK/OK
DEDIVUKO00202 / 201334740023_R02C01	Extension	Extension (T) (14607337)	27217	188	OK/OK
DEDIVUKO00202 / 201334740023_R02C01	Extension	Extension (C) (12613307)	862	12475	OK/OK
DEDIVUKO00202 / 201334740023_R02C01	Extension	Extension (G) (11603365)	1132	12032	OK/OK
DEDIVUKO00202 / 201334740023_R02C01	Target Removal	Target Removal (31623323)	704	137	OK/OK
DEDIVUKO00202 / 201334740023_R02C01	Hybridization	Hyb (High) (19612319)	1428	12429	OK/OK
DEDIVUKO00202 / 201334740023_R02C01	Hybridization	Hyb (Medium) (20636378)	403	7851	OK/OK
DEDIVUKO00202 / 201334740023_R02C01	Hybridization	Hyb (Low) (23617335)	1239	2567	OK/OK
DEDIVUKO00202 / 201334740023_R02C01	Stringency	String (PM) (32629312)	16273	329	OK/OK
DEDIVUKO00202 / 201334740023_R02C01	Stringency	String (MM) (33668307)	2632	196	OK/OK
DEDIVUKO00202 / 201334740023_R02C01	Non-Specific Binding	NSB (Bgnd) (26619332)	280	122	OK/OK
DEDIVUKO00202 / 201334740023_R02C01	Non-Specific Binding	NSB (Bgnd) (27624356)	262	93	OK/OK
DEDIVUKO00202 / 201334740023_R02C01	Non-Specific Binding	NSB (Bgnd) (25617343)	279	151	OK/OK
DEDIVUKO00202 / 201334740023_R02C01	Non-Specific Binding	NSB (Bgnd) (24616350)	255	113	OK/OK
DEDIVUKO00202 / 201334740023_R02C01	Non- Polymorphic	NP (A) (34633358)	8433	251	OK/OK
DEDIVUKO00202 / 201334740023_R02C01	Non- Polymorphic	NP (T) (16648324)	10734	192	OK/OK
DEDIVUKO00202 / 201334740023_R02C01	Non- Polymorphic	NP (C) (43641328)	487	6855	OK/OK
DEDIVUKO00202 / 201334740023_R02C01	Non- Polymorphic	NP (G) (13642359)	445	5649	OK/Notable
DEDIVUKO00202 / 201334740023_R02C01	Restoration	Restore (28637363)	292	214	OK/OK

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
DEDIVUKO00202	16	32257633	33615421	1	1357788	120	79,1026	CNV-CNV: 32, CNV-Complex: 2, CNV-Gain: 55, CNV-Gain+Loss: 2, CNV-Loss: 7
DEDIVUKO00202	17	44168225	44787312	3	619087	77	290,3218	CNV-CNV: 34, CNV-Complex: 2, CNV-Gain: 5, CNV-Gain+Loss: 1
DEDIVUKO00202	20	29804073	30829991	3	1025918	807	156,3225	