Karyotype Report

Customer sample ID:	NP0100-10, 10+4
Internal sample ID:	DE34DIVUKOD100179
Date of receipt:	2017-02-01

Gender

Stated:	Unknown
Chr. X derived:	Male

Genotype identity with: NP0100 HDF-17.10.2016 / DEDIVUKO00146, NP0100-4*-17.10.2016 / DEDIVUKO00147, NP0100-8-08.12.2016 / DEDIVUKO00171, NP0100-11-01.02.2017 / DEDIVUKO00180

Karyotyping

Technology used:	Illumina BeadArray
Product:	HumanOmniExpressExome-8 BeadChip v1.3
Manifest file:	HumanOmniExpressExome-8v1-3_A.bpm
Cluster file:	HumanOmniExpressExome-8v1-3_A.egt

Chip barcode and segment:	200729680112	R01C01
Batch ID and 96 well position:	WG0086079-MSA1	A01

Call rate:	0,999

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:	2017-02-09-0424

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

Chr20: Duplication in 20q11.21

Analyst

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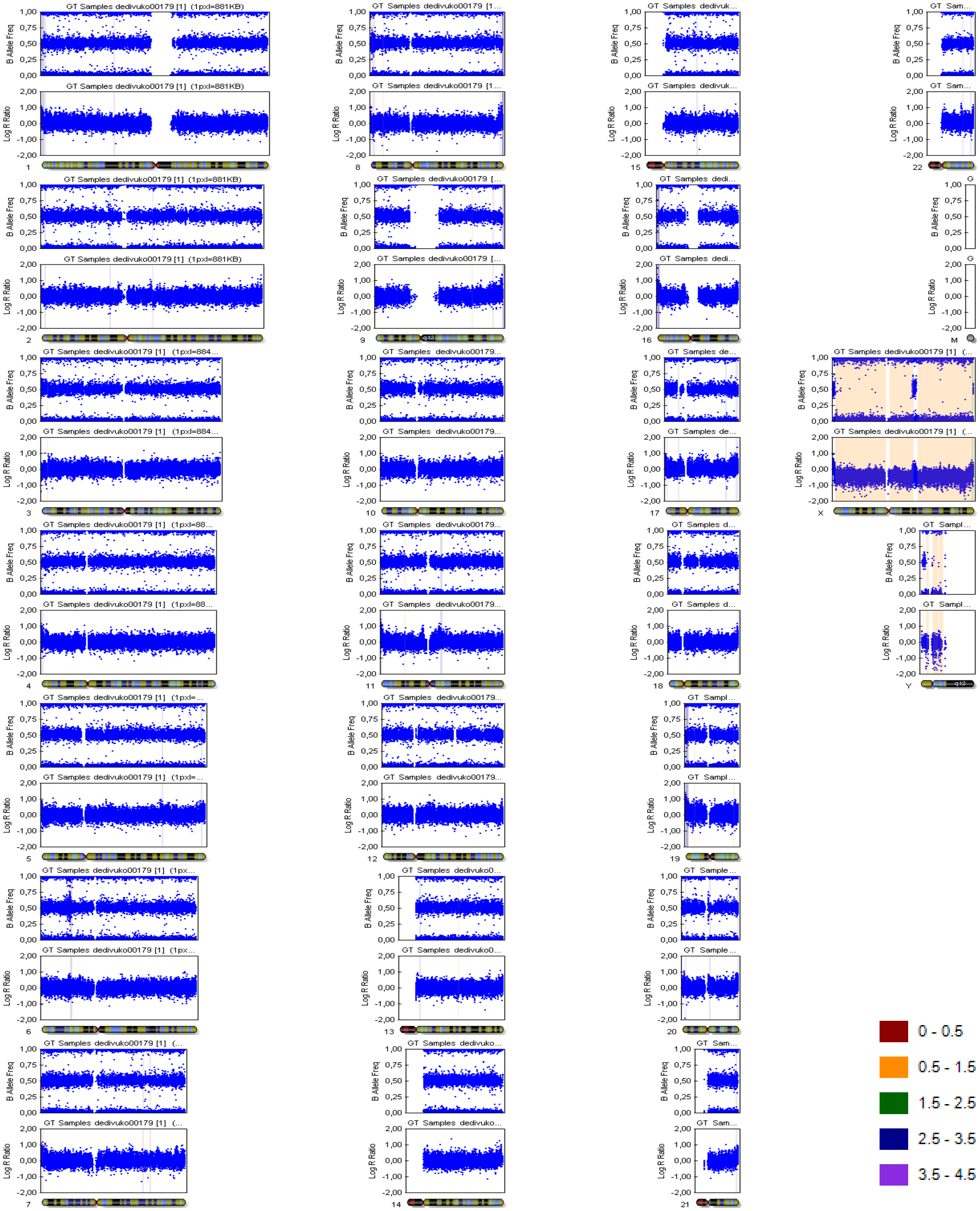
Control Dashboard

Sample_ID / Sentrix_Label	Category	Control (BeadType)	Section 1 X	Section 1 Y	State
DEDIVUKO00179 / 200729680112_R01C01	Staining	DNP (High) (27630314)	14198	183	OK/OK
DEDIVUKO00179 / 200729680112_R01C01	Staining	DNP (Bgnd) (29619375)	286	182	OK/OK
DEDIVUKO00179 / 200729680112_R01C01	Staining	Biotin (High) (41666334)	299	6294	OK/OK
DEDIVUKO00179 / 200729680112_R01C01	Staining	Biotin (Bgnd) (34648333)	222	195	OK/OK
DEDIVUKO00179 / 200729680112_R01C01	Extension	Extension (A) (17616306)	28448	342	OK/OK
DEDIVUKO00179 / 200729680112_R01C01	Extension	Extension (T) (14607337)	28784	276	OK/OK
DEDIVUKO00179 / 200729680112_R01C01	Extension	Extension (C) (12613307)	902	15056	OK/OK
DEDIVUKO00179 / 200729680112_R01C01	Extension	Extension (G) (11603365)	1232	15145	OK/OK
DEDIVUKO00179 / 200729680112_R01C01	Target Removal	Target Removal (31623323)	785	169	OK/OK
DEDIVUKO00179 / 200729680112_R01C01	Hybridization	Hyb (High) (19612319)	1119	14052	OK/OK
DEDIVUKO00179 / 200729680112_R01C01	Hybridization	Hyb (Medium) (20636378)	337	8755	OK/OK
DEDIVUKO00179 / 200729680112_R01C01	Hybridization	Hyb (Low) (23617335)	1190	2586	OK/OK
DEDIVUKO00179 / 200729680112_R01C01	Stringency	String (PM) (32629312)	16372	345	OK/OK
DEDIVUKO00179 / 200729680112_R01C01	Stringency	String (MM) (33668307)	2471	167	OK/OK
DEDIVUKO00179 / 200729680112_R01C01	Non-Specific Binding	NSB (Bgnd) (26619332)	236	170	OK/OK
DEDIVUKO00179 / 200729680112_R01C01	Non-Specific Binding	NSB (Bgnd) (27624356)	208	124	OK/OK
DEDIVUKO00179 / 200729680112_R01C01	Non-Specific Binding	NSB (Bgnd) (25617343)	237	211	OK/OK
DEDIVUKO00179 / 200729680112_R01C01	Non-Specific Binding	NSB (Bgnd) (24616350)	236	132	OK/OK
DEDIVUKO00179 / 200729680112_R01C01	Non-Polymorphic	NP (A) (34633358)	10081	289	OK/OK
DEDIVUKO00179 / 200729680112_R01C01	Non-Polymorphic	NP (T) (16648324)	9003	236	OK/OK
DEDIVUKO00179 / 200729680112_R01C01	Non-Polymorphic	NP (C) (43641328)	422	7686	OK/OK
DEDIVUKO00179 / 200729680112_R01C01	Non-Polymorphic	NP (G) (13642359)	490	7919	OK/OK
DEDIVUKO00179 / 200729680112_R01C01	Restoration	Restore (28637363)	247	309	OK/OK

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

Karyogram


GT Samples dedivuko00179 [1] (1pxl=881KB)
B Allele Freq
Log R Ratio
1,00
0,75
0,50
0,25
0,00
2,00
1,00
0,00
-1,00
-2,00
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
X
Y
M
G
q12
🟥 0 - 0.5
🟧 0.5 - 1.5
🟩 1.5 - 2.5
🟦 2.5 - 3.5
🟪 3.5 - 4.5

Copy Number Analysis

Copy number events will be reported if larger than 350'000 base pairs.
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
DEDIVUKO00179	17	14290540	15592762	2	1302222	614	254,016	
DEDIVUKO00179	20	29942695	30419954	3	477259	136	437,9913	