# Karyotype Report

 Customer sample ID: A13777

 Internal sample ID: LU46DIVULUD100081

 Date of receipt: 09.09.2017

Gender

 Stated: Female

 Chr. X derived: Female

Genotype identity with: S19-2017-02-24 / LUDIVULU00058, S20-2017-02-24 / LUDIVULU00059, S21-2017-02-24 / LUDIVULU00060, S22-2017-02-24 / LUDIVULU00061, S23-2017-02-24 / LUDIVULU00062, CLN3\_Q352X 2017-09-09 / LUDIVULU00080

## 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: 201340820084 R08C01

Batch ID and 96 well position: WG5830318-MSA6 H03

Call rate: 0,9963198

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: 2017-09-12-1602

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. Noteworthy: 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** |
| LUDIVULU00081 / 201340820084\_R08C01 | Staining | DNP (High) (27630314) | 28739 | 140 | OK/OK |
| LUDIVULU00081 / 201340820084\_R08C01 | Staining | DNP (Bgnd) (29619375) | 614 | 438 | OK/OK |
| LUDIVULU00081 / 201340820084\_R08C01 | Staining | Biotin (High) (41666334) | 700 | 15922 | OK/OK |
| LUDIVULU00081 / 201340820084\_R08C01 | Staining | Biotin (Bgnd) (34648333) | 568 | 108 | Notable/OK |
| LUDIVULU00081 / 201340820084\_R08C01 | Extension | Extension (A) (17616306) | 32073 | 633 | OK/OK |
| LUDIVULU00081 / 201340820084\_R08C01 | Extension | Extension (T) (14607337) | 34309 | 490 | OK/OK |
| LUDIVULU00081 / 201340820084\_R08C01 | Extension | Extension (C) (12613307) | 1658 | 21861 | OK/OK |
| LUDIVULU00081 / 201340820084\_R08C01 | Extension | Extension (G) (11603365) | 2030 | 20157 | Notable/OK |
| LUDIVULU00081 / 201340820084\_R08C01 | Target Removal | Target Removal (31623323) | 1314 | 243 | OK/OK |
| LUDIVULU00081 / 201340820084\_R08C01 | Hybridization | Hyb (High) (19612319) | 2149 | 19236 | OK/OK |
| LUDIVULU00081 / 201340820084\_R08C01 | Hybridization | Hyb (Medium) (20636378) | 771 | 12279 | OK/OK |
| LUDIVULU00081 / 201340820084\_R08C01 | Hybridization | Hyb (Low) (23617335) | 2020 | 3473 | OK/OK |
| LUDIVULU00081 / 201340820084\_R08C01 | Stringency | String (PM) (32629312) | 22622 | 640 | OK/OK |
| LUDIVULU00081 / 201340820084\_R08C01 | Stringency | String (MM) (33668307) | 6724 | 421 | Notable/OK |
| LUDIVULU00081 / 201340820084\_R08C01 | Non-Specific Binding | NSB (Bgnd) (26619332) | 673 | 381 | OK/OK |
| LUDIVULU00081 / 201340820084\_R08C01 | Non-Specific Binding | NSB (Bgnd) (27624356) | 594 | 255 | OK/OK |
| LUDIVULU00081 / 201340820084\_R08C01 | Non-Specific Binding | NSB (Bgnd) (25617343) | 624 | 404 | OK/OK |
| LUDIVULU00081 / 201340820084\_R08C01 | Non-Specific Binding | NSB (Bgnd) (24616350) | 654 | 361 | OK/OK |
| LUDIVULU00081 / 201340820084\_R08C01 | Non-Polymorphic | NP (A) (34633358) | 10936 | 582 | OK/OK |
| LUDIVULU00081 / 201340820084\_R08C01 | Non-Polymorphic | NP (T) (16648324) | 14010 | 404 | OK/OK |
| LUDIVULU00081 / 201340820084\_R08C01 | Non-Polymorphic | NP (C) (43641328) | 845 | 10565 | OK/OK |
| LUDIVULU00081 / 201340820084\_R08C01 | Non-Polymorphic | NP (G) (13642359) | 972 | 8979 | OK/OK |
| LUDIVULU00081 / 201340820084\_R08C01 | Restoration | Restore (28637363) | 616 | 483 | Notable/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** |
| LUDIVULU00081 | 7 | 132635483 | 133193425 | 3 | 557942 | 321 | 1431,625 |  |
| LUDIVULU00081 | 20 | 29804073 | 30753220 | 3 | 949147 | 755 | 894,6451 |  |