

# Methylation profiling report

## Supplier information

|                     |                      |   |                         |
|---------------------|----------------------|---|-------------------------|
| Sample identifier:  | sampleName1573854574 | <b>Automatic prediction</b>   |                         |
| Sentrix ID:         | 203057570095_R04C01  | Array type:   | EPIC                    |
| Material type:      | KRYO DNA             | Material type:  | KRYO DNA <span>✓</span> |
| Gender:             | NA                   | Gender:   | female <span>!</span>   |
| Supplier diagnosis: | -                    | Legend: <span>✓</span> OK <span>!</span> Supplier information or prediction not available <span>✗</span> Warning, mismatch of prediction and supplier information |                         |

## Brain tumor methylation classifier results (v11b4)

| Methylation classes (MCs with score >= 0.3)                   | Calibrated score | Interpretation       |
|---|------------------|----------------------|
| methylation class family Glioma, IDH mutant                   | 0.99             | match <span>✓</span> |
| <b>MC family members with score &gt;= 0.1</b>                 |                  |                      |
| methylation class IDH glioma, subclass high grade astrocytoma | 0.99             | match <span>●</span> |

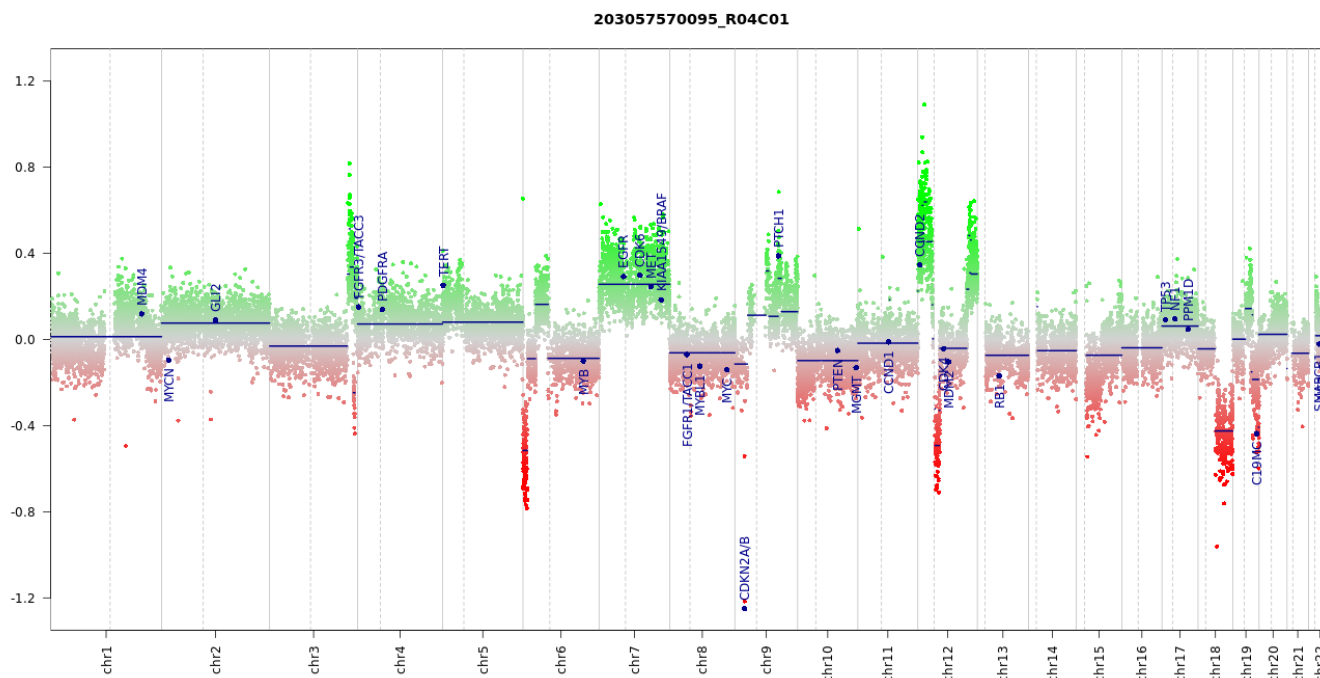
Legend: ✓ Match (score >= 0.9) ✗ No match (score < 0.9): possibly still relevant for low tumor content and low DNA quality cases. ● Match to MC family member (score >= 0.5)

## Class descriptions

**Methylation class family Glioma, IDH mutant:** The methylation class family "Glioma, IDH mutant" comprises the methylation classes astrocytoma, IDH mutant, astrocytoma, IDH mutant, subtype high grade and oligodendroglioma, IDH mutant and 1p/19q codeleted.

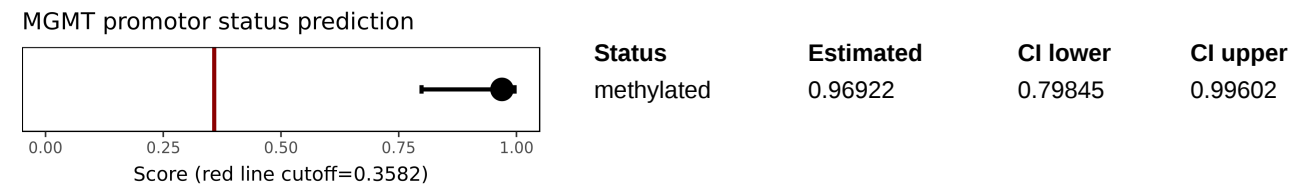
**Methylation class IDH glioma, subclass high grade astrocytoma :** The methylation class "IDH glioma, subclass high grade astrocytoma" is mainly comprised of glioblastoma, IDH mutant and anaplastic astrocytoma, IDH mutant. Many of the cases in this class represent progressed tumors (i.e. secondary glioblastoma, IDH mutant). Primary location is generally supratentorial but posterior fossa spread in the course of disease is possible. Median age is 38 years (range 17 to 72). Complete 1p/19q codeletion is not compatible with "IDH glioma, subclass high grade astrocytoma" and if present should lead to diagnosis of an "IDH glioma, subclass 1p/19q codeleted oligodendroglioma". This class universally harbors mutations of either IDH1 or IDH2 and the associated glioma CIMP phenotype. Copy number changes are numerous and frequently complex.

## Copy number variation profile



Depiction of chromosome 1 to 22 (and X/Y if automatic prediction was successful). Gains/amplifications represent positive, losses negative deviations from the baseline. 29 brain tumor relevant gene regions are highlighted for easier assessment.  
(see Hovestadt & Zapatka, <http://www.bioconductor.org/packages/devel/bioc/html/conumee.html>)

# MGMT promotor methylation (MGMT-STP27)



(see Bady et al, J Mol Diagn 2016; 18(3):350-61)

## Disclaimer

Classification using methylation profiling is a research tool under development, it is not verified and has not been clinically validated. Implementation of the results in a clinical setting is in the sole responsibility of the treating physician. Intended for non-commercial use only.

## Run information

Report: idat\_reportBrain\_v11b4\_sample Version 2.0  
Task version:

| Task                   | Version |
|------------------------|---------|
| idat_qc                | 2.0     |
| idat_predictBrain      | 2.1     |
| idat_rs_gender         | 2.0     |
| idat_predictMGMT       | 2.0     |
| idat_cnvp              | 3.0     |
| idat_reportBrain_v11b4 | 2.0     |