





# **Methylation profiling report**

# Supplier information

Sample identifier: sampleName1574006257
Sentrix ID: 203057710116\_R05C01

Material type: KRYO DNA

Gender: NA

Supplier diagnosis: -

Automatic prediction		
Array type:	EPIC	
Material type:	KRYO DNA	<b>~</b>
Gender:	female	
Legend: ✔ OK Supplier information or prediction not available		

#### Brain tumor methylation classifier results (v11b4)

Meth	/lation classes (MCs with score >= 0.3)	Calibrated score	Interpretation	on
methy	rlation class family Glioblastoma, IDH wildtype	0.76	no match	X
	MC family members with score >= 0.1			
	methylation class glioblastoma, IDH wildtype, subclass RTK II	0.39		
	methylation class glioblastoma, IDH wildtype, subclass RTK I	0.22		
	methylation class glioblastoma, IDH wildtype, subclass mesenchymal	0.13		
Legen	d: ✓ Match (score >= 0.9) X No match (score < 0.9): possibly still relevant for low tumor content an quality cases.	d low DNA • Match to   (score >=	MC family memb : 0.5)	oer

#### **Class descriptions**

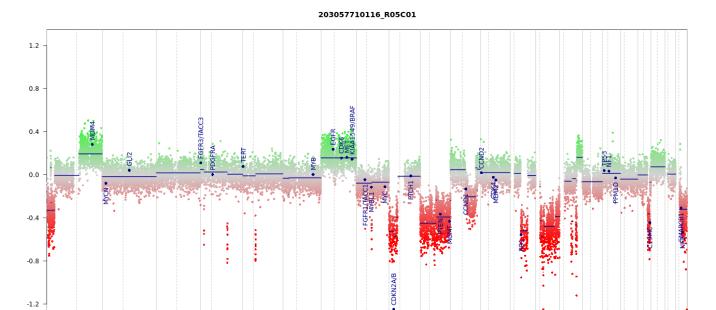
Methylation class family Glioblastoma, IDH wildtype: The methylation class family "Glioblastoma, IDH wildtype" comprises the methylation classes glioblastoma, IDH wildtype, subtype RTK I to III, glioblastoma, IDH wildtype, subtype mesenchymal, glioblastoma, IDH wildtype, subtype MYCN and glioblastoma. IDH wildtype, subtype midline.

Methylation class glioblastoma, IDH wildtype, subclass RTK II: The methylation class "glioblastoma, IDH wildtype, subclass RTK II" is comprised of tumors with a histological diagnosis of glioblastoma, IDH wildtype and rarely gliosarcoma, IDH wildtype. These tumors are typically located in the cerebral hemispheres. Median age is 61 years (range 36 to 86). Recurrent chromosomal alterations are gain of chromosome 7 with or without EGFR amplification (>90%), loss of 9p21 (CDKN2A/B; >70%) and chromosome 10 loss (>90%). Gin of chromosome 19 and 20 is also recurrently observed (40% of cases). Expression profiles often resemble the 'Classical' subgroup according to the TCGA classification.

Methylation class glioblastoma, IDH wildtype, subclass RTK I: The methylation class "glioblastoma, IDH wildtype, subclass RTK I" is comprised of tumors with a histological diagnosis of glioblastoma, IDH wildtype. The tumors are located in the cerebral hemispheres. Median age is 64 years (range 29 to 84). Recurrent chromosomal alterations are gain of chromosome 7 with or without EGFR amplification (>80%), loss of 9p21 (CDKN2A/B; >50%) and chromosome 10 loss (>70%). Amplifications of the PDGFRA oncogene are enriched in this class (present in 20-30% of cases). Expression profiles often resemble the 'Proneural' subgroup according to the TCGA classification.

Methylation class glioblastoma, IDH wildtype, subclass mesenchymal: The methylation class "glioblastoma, IDH wildtype, subclass mesenchymal" is comprised of tumors with a histological diagnosis of glioblastoma or occasionally gliosarcoma. These tumors are typically located in the cerebral hemispheres. Median age is 59 years (range 40 to 86). Recurrent chromosomal alterations are gain of chromosome 7 with or without EGFR amplification (>80%), loss of 9p21 (CDKN2A/B; >60%) and chromosome 10 loss (>90%). Alterations of NF1 may also be enriched in this subtype, and expression profiles often resemble the 'Mesenchymal' subgroup according to the TCGA classification.

# 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, <a href="http://www.bioconductor.org/packages/devel/bioc/html/conumee.html">http://www.bioconductor.org/packages/devel/bioc/html/conumee.html</a>)

# **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

chr19