

# Methylation profiling report

## Supplier information

Sample identifier:	sampleName1527692555	Automatic prediction		
Sentrix ID:	202053820004_R06C01	Array type:	EPIC	
Material type:	FFPE DNA	Material type:	KRYO DNA	✗
Gender:	NA	Gender:	male	!
Supplier diagnosis:	-	Legend: ✓ OK   ! Supplier information or prediction not available   ✗ 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 Pilocytic astrocytoma	0.96	match ✓
MC family members with score >= 0.1		
methylation class low grade glioma, subclass hemispheric pilocytic astrocytoma and ganglioglioma	0.96	match ●

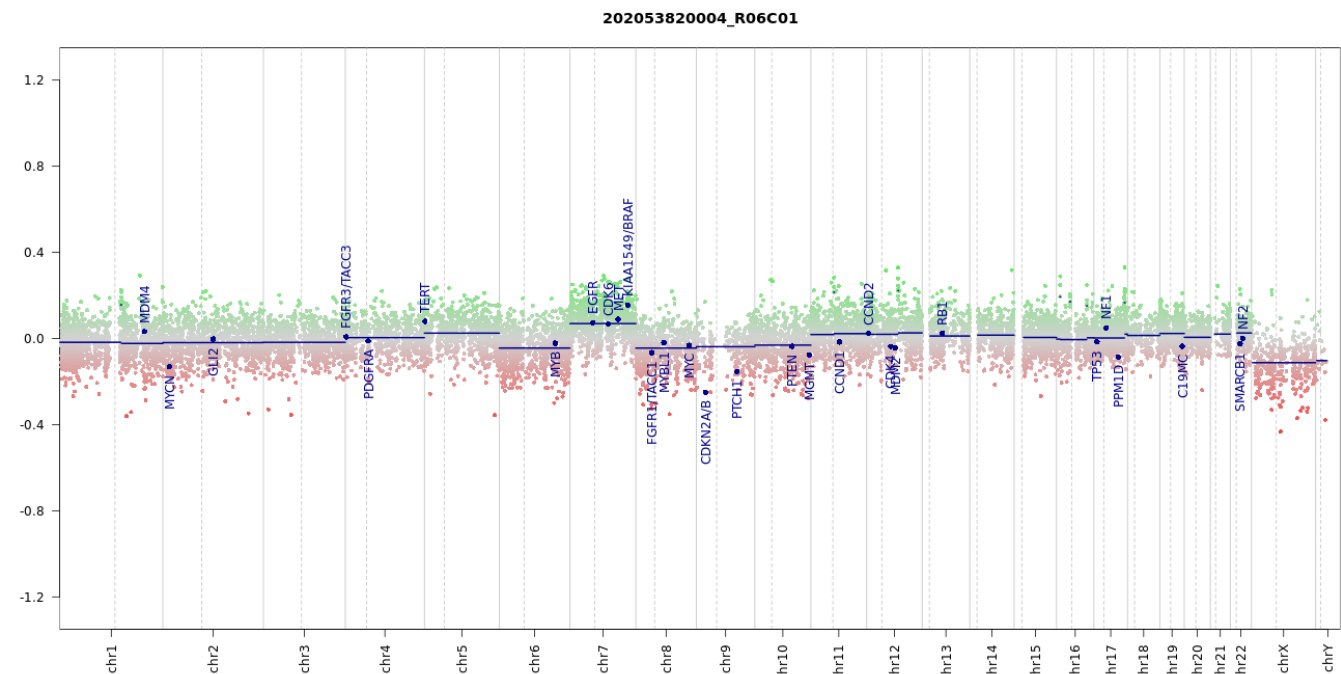
Legend: ✓ Match (score >= 0.9)   ✗ No match (score < 0.9): possibly still relevant for low tumor content and low DNA quality cases.   ● Match to MC family member (score >= 0.5)

## Class descriptions

**Methylation class family Pilocytic astrocytoma:** The methylation class family "Pilocytic astrocytoma" comprises the methylation classes low grade glioma, subtype posterior fossa pilocytic astrocytoma, low grade glioma, subtype midline pilocytic astrocytoma and low grade glioma, subtype hemispheric pilocytic astrocytoma and ganglioglioma.

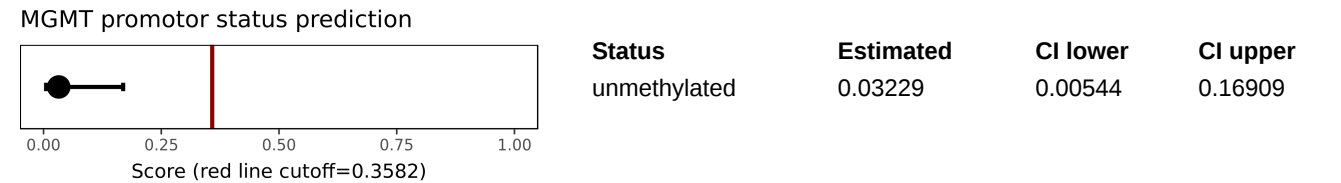
**Methylation class low grade glioma, subclass hemispheric pilocytic astrocytoma and ganglioglioma:** The methylation class "low grade glioma, subclass hemispheric pilocytic astrocytoma and ganglioglioma" is mainly comprised of tumors diagnosed as pilocytic astrocytoma, but also includes gangliogliomas and pilomyxoid astrocytomas. Tumors are located supratentorially (cerebral hemispheres). Median age is 19 years (range 4 to 32). These tumors typically carry MAPK pathway alterations, in particular BRAF V600E mutation or BRAF fusion, but also some others (NF1, KRAS etc.). The most frequent copy number alterations are gains of chromosome 5, 6 or 7 (20-30% of cases).

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