Methylation profiling report

General information

Sentrix ID:	**200362700167_R03C02**
Array type:	**450k**
Material type:	**FFPE DNA**
Gender:	**male**

Brain tumor methylation classifier results (v11b4)

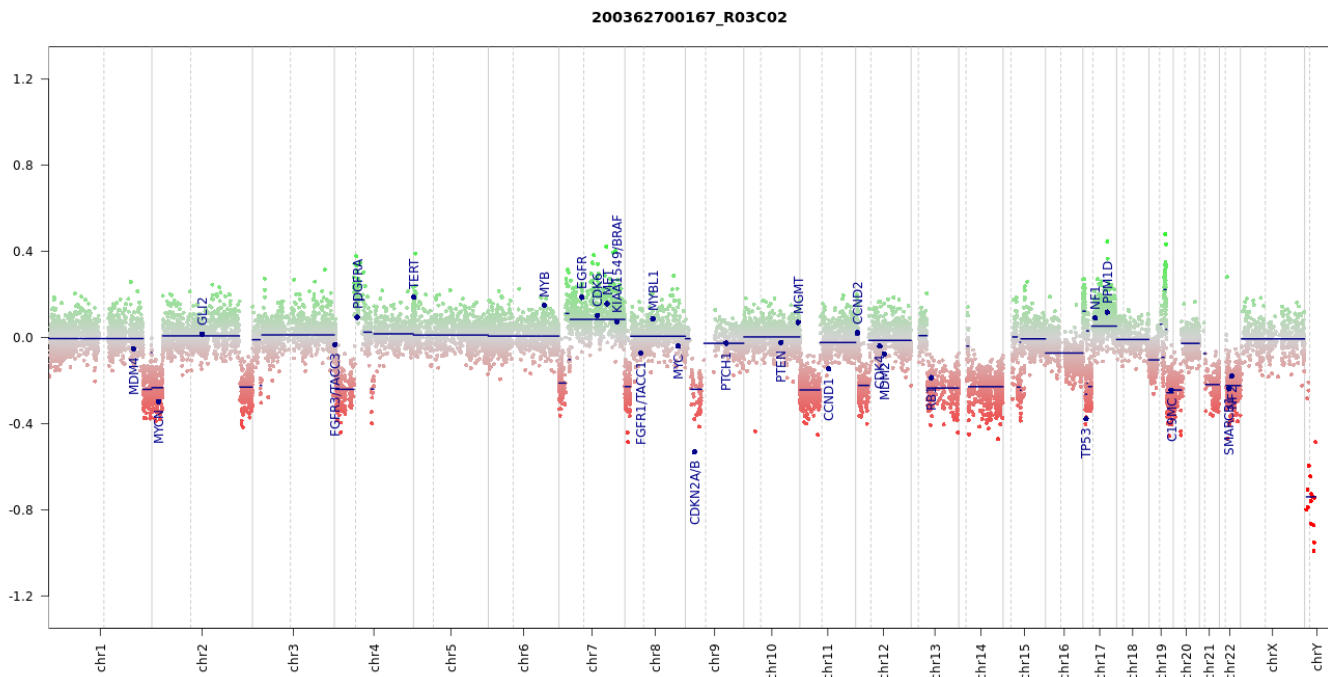| Methylation classes (MCs with score >= 0.3)	Calibrated score	Interpretation	
methylation class anaplastic pilocytic astrocytoma	0.77	no match	✗

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)
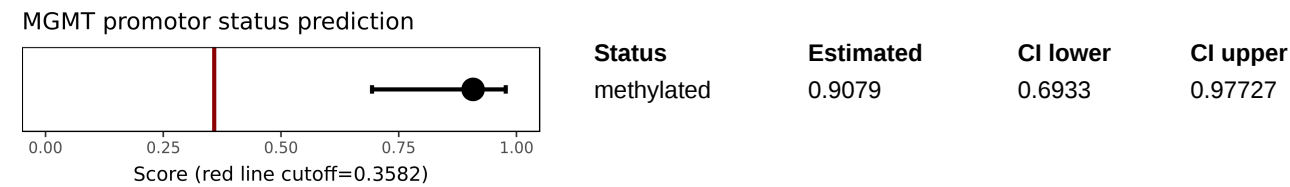
Class descriptions

Methylation class anaplastic pilocytic astrocytoma: The methylation class "anaplastic pilocytic astrocytoma" is mainly comprised of tumors with the histological diagnosis of anaplastic pilocytic astrocytoma or less commonly glioblastoma. The tumors mostly occur in the posterior fossa and rarely in the diencephalic/thalamic region; median age is 40 years (age range 24 to 75). Deletions of CDKN2A/B are very frequent (>70%). BRAF duplications are also observed in a fraction of cases. Around 50% of cases show an immunohistochemical loss of ATRX. Loss of chromosome 19q (total or partial) is observed in over 50% 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)

MGMT promotor status prediction

Score (red line cutoff=0.3582)

Status	Estimated	CI lower	CI upper
methylated	0.9079	0.6933	0.97727

(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 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