

Methylation profiling report

General information

Sentrix ID: 202273260007_R08C01
Array type: EPIC
Material type: KRYO DNA
Gender: male

Brain tumor methylation classifier results (v11b4)

Methylation classes (MCs with score ≥ 0.3)

Calibrated score Interpretation

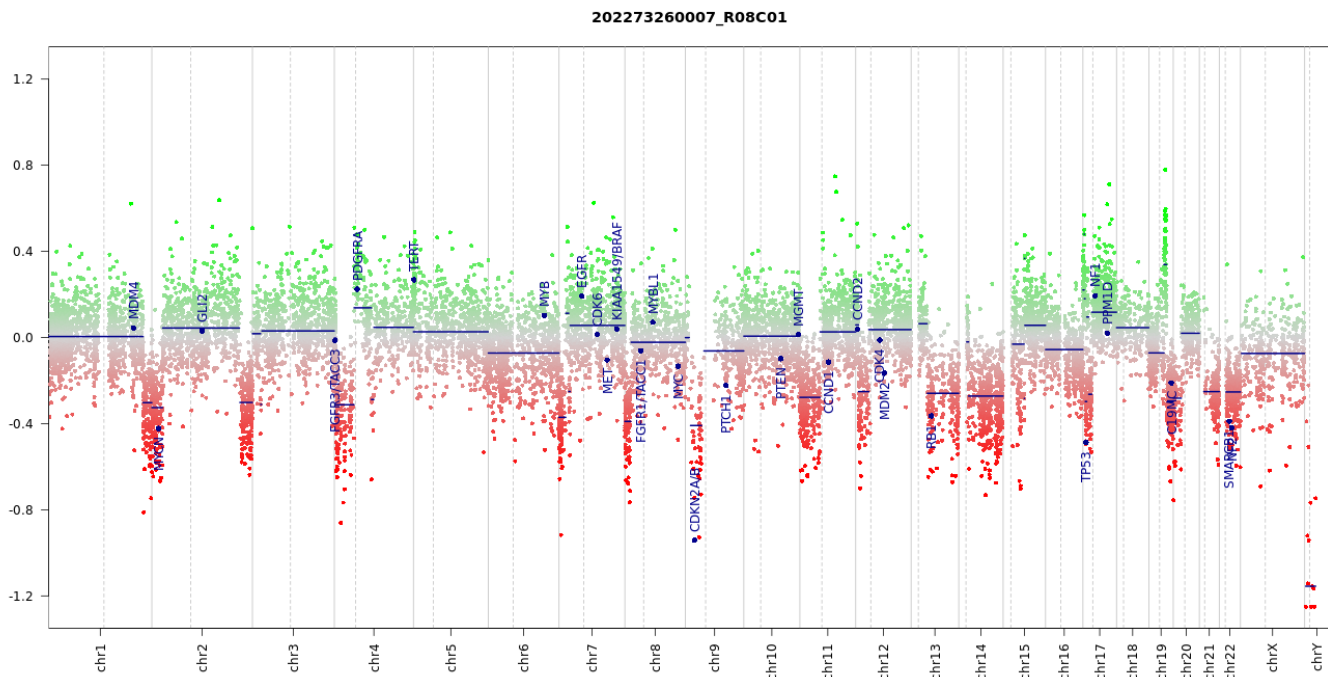
| Methylation class (MCs with score ≥ 0.3) | Calibrated score | Interpretation |
|--|------------------|---|
| methylation class anaplastic pilocytic astrocytoma | 0.33 | no match ✗ |

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.

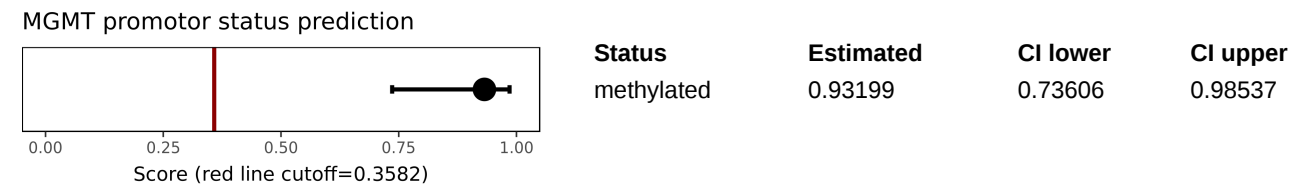
Copy number variation profile



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)



(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 |